

CLASS PLT, PLANTS**SECTION I - CLASS DEFINITION**

This is the class for plants which are patentable under Title 35 U.S. Code, Section 161, which provides for the granting of a patent to whoever invents or discovers and asexually reproduces any distinct and new variety of plant, including cultivated sports, mutants, hybrids, and newly found seedlings other than a tuber propagated plant or a plant found in an uncultivated state.

SECTION II - LINES WITH OTHER CLASSES AND WITHIN THIS CLASS**II. LINES WITH OTHER CLASSES AND WITHIN THIS CLASS**

In order to be properly classified, a patent or publication is placed in the first appearing of a series of coordinate subclasses which includes the subject matter of the patent or publication. Thus, a patent describing a plant which is both a conifer and a shrub is classified as a conifer rather than a shrub. A patent not fitting the description of any of the first line subclasses is classified in miscellaneous subclasses elsewhere. (See Subclass References to the Current Class, below.)

A subclass which is positioned one indent to the left of one or more following subclasses is considered to be the residual (miscellaneous) subclass for that group of subclasses. Thus, the subclass titled Shrubs or vines, includes those shrubs or vines which are not azaleas or rhododendrons, barberries, buddleias, etc., while the subclass titled Camellia, includes those camellias which are neither pink nor red. (See Subclass References to the Current Class, below.)

Subclasses in this class have been created based on the commercial or market class in which the plants are normally found. For example, though a tomato is botanically a fruit, it is sold as a vegetable, therefore making classification proper for the vegetable area rather than the fruit area. Though some varieties of philodendron may grow as a vine, it is normally sold with the ornamental foliage plants and therefore is classified in that area rather than with the vines and shrubs. (See Subclass References to the Current Class, below.)

If a plant is noted for its flowers and its foliage, it will normally be classified with the ornamental flowering plants since those subclasses appear in the schedule prior to the ornamental foliage subclasses. Whether a

plant is noted for its foliage or its flowers may sometimes be a subjective decision. When in doubt, look at the subclass definitions for guidance.

The color definitions given herein are substantially those found in Webster's New International Dictionary, Second Edition, Unabridged, published by G.C. Merriam Co., Springfield, MA. Each color definition refers to one or more plant patents so that the blossoms of the plant patents themselves comprise a kind of color chart to illustrate the words of the definitions. The color designations apply to the color of the blossom when it is newly open and in an unfaded condition, i.e., not in bud or in full bloom. The color designation in the patent specification is the color used to determine placement of patents.

The effects of light and shadow should be discounted when determining the true color of a blossom for purposes of classification. Also, the color at the base of the petal should be disregarded except where a two-tone or bicolor effect is quite obvious.

All the color designations refer to solid colors unless clearly indicated otherwise. Thus, considering the group of climbing roses, a striped or bicolor rose would not be proper for any of the indented subclasses but would be placed in the miscellaneous subclass for climbing roses. In determining whether or not a blossom has a solid color, the appearance of the flower as a whole is the proper criterion. Minor flecks and gradations of color should be disregarded. However, both faces of all petals must be substantially the same color. (See References to the Current Class, below.)

SECTION III - SUBCLASS REFERENCES TO THE CURRENT CLASS**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 109, for climbing roses.
- 156+, for fruit.
- 213, for a plant classified as a conifer.
- 226, for a plant classified as a shrub.
- 226, for shrubs or vines which are not azaleas or rhododendrons, barberries, buddleias, etc.
- 243, for camellias which are neither pink nor red.
- 258, for vegetable.
- 373+, for ornamental foliage plants.
- 395, for miscellaneous.

SECTION IV - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

800, Multicellular Living Organisms and Unmodified Parts Thereof and Related Processes, subclasses 295+ for living multicellular plants and separated or severed parts thereof that have not undergone any modification or treatment subsequent to their separation (e.g., untreated seeds, etc.).

SUBCLASSES

101 ROSE:

This subclass is indented under the class definition. Plant which is a member of the genus *Rosa* and not otherwise provided for.

102 Shrub:

This subclass is indented under subclass 101. Rose plant which is characterized as highly basally dominant, forming a profusion of upwardly extending canes, resulting in a dense, mounded, shrub-like specimen plant as typified by U.S. plant patent Nos. 9715, 9191, and 8680.

- (1) Note. This plant may also be characterized by short to medium length flowering stems, superior cold hardiness and disease resistance, coarseness of the blooms and/or plant, and abundant foliage. Shrub-like plants with highly quartered blooms are also included in this subclass.

103 White:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray) as typified by U.S. plant patent Nos. 9650, 9374, and 8871.

104 Yellow:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are yellow (a color which resembles the hue of ripe lemons or the color of sulfur) as typified by U.S. plant patent Nos. 9007, 8668, and 8682.

105 Orange:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9705, 9527, and 9524.

106 Salmon:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are salmon (a color which is reddish red-yellow, of medium saturation and high brilliance), as typified by U.S. plant patent No. 7312.

107 Pink:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation and from high to very high brilliance), as typified by U.S. plant patent Nos. 9680, 9641, and 9526.

108 Red:

This subclass is indented under subclass 102. Shrub rose characterized by blossoms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9649, 9537, and 9554.

109 Climber:

This subclass is indented under subclass 101. Rose plant characterized by vigorous, long, erect or lax canes suitable for training on trellises or fences, as typified by U.S. plant patent Nos. 8019, 6892, and 5049.

- (1) Note. "Pillar" and "Rambler" roses are proper for this and indented subclasses.

110 White:

This subclass is indented under subclass 109. Climbing rose characterized by blossoms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 8689, 6706, and 2284.

111 Yellow:

This subclass is indented under subclass 109. Climbing rose characterized by blossoms

- which are yellow (a color which resembles the hue of ripe lemons or the color of sulphur), as typified by U.S. plant patent Nos. 9012, 8411, and 6509.
- 112 Orange:**
This subclass is indented under subclass 109. Climbing rose characterized by blossoms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9356, 9233, and 9013.
- 113 Salmon:**
This subclass is indented under subclass 109. Climbing rose characterized by blossoms which are salmon (a color which is reddish red-yellow, of medium saturation and high brilliance) as typified by U.S. plant patent Nos. 7617, 6596, and 1606.
- 114 Pink:**
This subclass is indented under subclass 109. Climbing rose characterized by blossoms which are pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 9612, 9492, and 7196.
- 115 Red:**
This subclass is indented under subclass 109. Climbing rose characterized by blossoms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 8741, 6817, and 4910.
- 116 Miniature:**
This subclass is indented under subclass 101. Rose plant which is characterized primarily by short stature (ranging in height from a few inches to approximately 20 inches), petite foliage, and blossoms of a diameter which is generally 1.5 inches or less, as typified by U.S. plant patent Nos. 9749, 9734, and 9033.
- 117 White:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 9280, 9279, and 9016.
- 118 Yellow:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are yellow (a color which resembles the hue of ripe lemons or the color of sulphur), as typified by U.S. plant patent Nos. 9414, 9401, and 9159.
- 119 Orange:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9656, 7606, and 7558.
- 120 Salmon:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are salmon (a color which is reddish red-yellow, of medium saturation and high brilliance) as typified by U.S. plant patent Nos. 9018, 8515, and 7032.
- 121 Pink:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 9735, 9717, and 9651.
- 122 Red:**
This subclass is indented under subclass 116. Miniature rose characterized by blossoms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9528, 9483, and 9090.
- 123 Super-miniature:**
This subclass is indented under subclass 101. Rose plant which is primarily characterized as being greater in height, stature, foliage size, and bloom size than miniatures, but still lesser than floribundas, as typified by U.S. plant patent Nos. 9821, 9798, and 9786.
- (1) Note. Typical height ranges would be from greater than 18 inches to 30 inches plus, with bloom diameters characterized

as greater than 1.5 inches, usually in the range of 2 to 2.5 inches.

124 White:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 8899, 8850, and 5557.

125 Yellow:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are yellow (a color which resembles the hue of ripe lemons or the color of sulfur), as typified by U.S. plant patent Nos. 6560, 5690, and 5427.

126 Orange:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9420, 8578, and 5246.

127 Salmon:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are salmon (a color which is reddish red-yellow, of medium saturation and high brilliance), as typified by U.S. plant patent Nos. 8554, 7188, and 5118.

128 Pink:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 9790, 6139, and 6132.

129 Red:

This subclass is indented under subclass 123. Super-miniature rose characterized by blossoms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9160, 9063, and 8555.

130 Grandiflora or hybrid tea:

This subclass is indented under subclass 101. Rose plant characterized as free flowering with large, well-shaped blooms borne singly or in small clusters on long stems, as typified by U.S. plant patent Nos. 9806, 9805, and 9706.

131 Red bicolor:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms in which either the reverse or face side of the petal is red (a color ranging from that of blood to that of a ruby) and the other side of the petal is a different color, as typified by U.S. plant patent Nos. 9376, 9064, and 9052.

132 Mottled, multiple, or striped colors:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms exhibiting a splashing, striping, speckling, or dotting of two or more distinct colors, as typified by U.S. plant patent Nos. 9574, 9037, 8590, and 3623.

133 White:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 9833, 9402, and 9328.

134 Yellow:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which are yellow (a color which resembles the hue of ripe lemons or the color of sulphur), as typified by U.S. plant patent Nos. 9719, 9608, and 9591.

135 Orange:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9609, 9170, and 9116.

136 Salmon:

This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by

- blooms which are salmon (a color which is red-dish red-yellow, of medium saturation and high brilliance), as typified by U.S. plant patent Nos. 9330, 9043, 8629.
- 137 Light to medium pink:**
This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 9808, 9807, and 9289.
- 138 Dark pink:**
This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 9564, 9403, and 8632.
- 139 Light to medium red:**
This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which range from a light to medium shade of red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9862, 9736, and 9636.
- 140 Dark red:**
This subclass is indented under subclass 130. Grandiflora or hybrid tea rose characterized by blooms which are a dark shade of red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9974, 9915, and 8754.
- 141 Floribunda or polyantha:**
This subclass is indented under subclass 101. Rose plant characterized as very free flowering with blooms borne in clusters as typified by U.S. plant patent Nos. 9600, 9171, and 9161.
- (1) Note. Floribundas are generally of lesser stature than hybrid teas or grandifloras, and polyanthas are generally smaller than floribundas, in bloom size as well as stature.
- 142 Red bicolor:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms in which either the reverse or face side of the petal is red (a color ranging from that of blood to that of a ruby) and the other side of the petal is a different color, as typified by U.S. plant patent Nos. 9405, 8579, and 7139.
- 143 Mottled, multiple, or striped colors:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms exhibiting a splashing, striping, speckling or dotting of two or more distinct colors, as typified by U.S. plant patent Nos. 9592, 6255, and 5399.
- 144 White:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 9720, 9629, 8580.
- 145 Yellow:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are yellow (a color which resembles the hue of ripe lemons or the color of sulphur), as typified by U.S. plant patent Nos. 9657, 9512, and 8946.
- 146 Orange:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high), as typified by U.S. plant patent Nos. 9711, 8900, and 5428.
- 147 Salmon:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are salmon (a color which is red-dish red-yellow, of medium saturation and high brilliance), as typified by U.S. plant patent Nos. 9721, 6165, and 5764.
- 148 Light to medium pink:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by

- blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation and from high to very high brilliance), as typified by U.S. plant patent Nos. 9722, 9613, and 9101.
- 149 Dark pink:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation and from high to very high brilliance), as typified by U.S. plant patent Nos. 9689, 9567, and 8183.
- 150 Light to medium red:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which range from a light to a medium shade of red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 9032, 8743, and 8634.
- 151 Dark red:**
This subclass is indented under subclass 141. Floribunda or polyantha rose characterized by blooms which are a dark shade of red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 8025, 7996, and 7157.
- 152 NUT (INCLUDING ORNAMENTAL VARIETY):**
This subclass is indented under the class definition. Plant which (a) bears edible hard-shelled dry fruit having a more or less distinct hull or (b) is an "ornamental" variety which may bear no fruit at all and is characterized by attractive foliage or blossoms.
- 153 Pecan:**
This subclass is indented under subclass 152. Nut plant which belongs to the genus *Carya* and species *illinoensis*.
- 154 Walnut:**
This subclass is indented under subclass 152. Nut plant which belongs to the genus *Juglans*.
- 155 Almond:**
This subclass is indented under subclass 152. Nut plant which belongs to the genus *Prunus* and species *amygdalus*.
- 156 FRUIT (INCLUDING ORNAMENTAL VARIETY):**
This subclass is indented under the class definition. Plant which (a) bears edible and fleshy fruit or (b) is an "ornamental" variety of fruiting species which may bear no fruit at all and is characterized by attractive foliage or blossoms.
- (1) Note. Interspecific hybrids are classified in the subclass which includes both or all plants involved in the interspecific cross. For example, a lemon X lime hybrid would be placed in the citrus subclass and a plum X apricot hybrid would be placed in the stone fruit subclass.
- 157 Blueberry:**
This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Vaccinium*.
- 158 Olive:**
This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Olea*.
- 159 Mango:**
This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Mangifera*.
- 160 Plantain or banana:**
This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Musa*.
- 161 Apple:**
This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Malus*.
- 162 Sport of 'Gala':**
This subclass is indented under subclass 161. Apple plant which is a sport derived from the tree *Gala*.
- 163 Sport of 'Jonagold':**
This subclass is indented under subclass 161. Apple plant which is a sport derived from the tree *Jonagold*.
- 164 Sport of 'Rome':**
This subclass is indented under subclass 161. Apple plant which is a sport derived from the tree *Rome*.

- 165 Sport of 'MacIntosh':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree MacIntosh.
- 166 Sport of 'Jonathan':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Jonathan.
- 167 Sport of 'Winesap':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Winesap.
- 168 Sport of 'Fuji':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Fuji.
- 169 Sport of 'Cortland':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Cortland.
- 170 Sport of 'Empire':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Empire.
- 171 Sport of 'Red Delicious':**
This subclass is indented under subclass 161.
Apple plant which is a sport derived from the tree Red Delicious.
- 172 Green or yellow fruited variety:**
This subclass is indented under subclass 161.
Apple plant which bears fruit of yellow or green predominant coloration.
- 173 Crabapple:**
This subclass is indented under subclass 161.
Apple plant which is particularly noted for its ornamental shape, ultimate size, ornamental flowering habit, or any combination of such characteristics, and which would be marketed as or labelled, in the market place, with the generic identifier "crabapple".
- (1) Note. Fruit of the crabapple is of reduced size, has mealy flesh, and is not normally marketable.
- 174 Rootstock:**
This subclass is indented under subclass 161.
Apple plant which is derived from breeding programs or discoveries and has primary utility for use as a rootstock.
- 175 Columnar habit:**
This subclass is indented under subclass 161.
Apple plant which essentially bears fruit on or on short spurs off an essentially nonbranching main vertical stem.
- 176 Pear:**
This subclass is indented under subclass 156.
Plant which belongs to the genus *Pyrus*.
- 177 Ornamental:**
This subclass is indented under subclass 176.
Pear plant which does not produce marketable fruit and which has attributes of desirable shape, canopy density, growth habit, fall coloration, etc., and is marketed as an ornamental tree.
- 178 Asian:**
This subclass is indented under subclass 176.
Pear plant which produces fruit which is marketed within the market class Asian pear and which belongs to any of the species of Asian pears.
- 179 Rootstock:**
This subclass is indented under subclass 176.
Pear plant which is derived from breeding programs or discoveries and has primary utility for use as a rootstock.
- 180 Stone fruit tree:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Prunus* and which may have within its genetic background more than one species within the genus.
- (1) Note. Interspecific hybrids of stone fruits are proper for this subclass (e.g., plumcots, etc.).
- 181 Cherry:**
This subclass is indented under subclass 180.
Stone fruit plant which belongs to the genus *Prunus* and is marketed as a "cherry".

- (1) Note. The cherries may be further characterized as "Bird", "Pin", "Wild", "Flowering", Duke, Mahaleb, Saint Luci, Manchu, Nanking, "Sour", "Pie", "Sweet", Bing, Mazzard, Western Plum, etc.
- 182 Ornamental:**
This subclass is indented under subclass 181.
Cherry plant which is used for ornamentation in landscape planting and which does not bear marketable fruit.
- 183 Rootstock:**
This subclass is indented under subclass 181.
Cherry plant which is used as an understock for ornamental and fruit-bearing cherry trees.
- 184 Plum:**
This subclass is indented under subclass 180.
Fruit plant which belongs to the genus *Prunus* and is marketed as a "plum".
- (1) Note. The plums are further characterized as Beach, Big tree, Bullace, Damson, Canada, Chicksaw, Mountain Cherry, Common, Hortulan, Hybrid, Japanese, Myrobalan or Cherry plum, Oklahoma, Pacific, Simon, Apricot, Wild Goose, etc.
- 185 Prune:**
This subclass is indented under subclass 184.
Plum plant which belongs to the genus *Prunus* and is a member of a group which may be successfully sun dried without removal of pits and marketed as a "prune".
- 186 Apricot:**
This subclass is indented under subclass 180.
Fruit plant which belongs to the genus *Prunus* and is marketed as an "apricot".
- (1) Note. Apricots found in this subclass include those of the species *sibirica*, *armeniaca*, *mume*, and *dasycarpa*, or hybrids having one of the subject species as the seed parent.
- 187 Nectarine:**
This subclass is indented under subclass 180.
Fruit plant which belongs to the genus *Prunus*, and species *persica* which is characterized by having a smooth (absent fuzz or pubescence) skin covering the flesh of the fruit.
- 188 White-fleshed clingstone, semi-clingstone, or semi-freestone:**
This subclass is indented under subclass 187.
Nectarine plant which bears fruit having flesh of predominantly white coloration and wherein the flesh once ripe is tenaciously adhered over substantially the entire surface of the stone.
- (1) Note. Fruit which is described as "semi-clingstone" or "semi-freestone" is classified as "clingstone".
- (2) Note. Included in this subclass is fruit with predominantly white flesh but having flecks of another color or with red stone well color.
- 189 White fleshed freestone:**
This subclass is indented under subclass 187.
Nectarine plant which bears fruit having flesh of predominantly white coloration and wherein the flesh once ripe readily separates from the stone leaving the stone substantially free of flesh.
- (1) Note. Included in this subclass is fruit with predominantly white flesh but having flecks of another color or with red stone well color.
- 190 Yellow-fleshed clingstone, semi-clingstone, or semi-freestone:**
This subclass is indented under subclass 187.
Nectarine plant which bears fruit having flesh of predominantly yellow coloration and wherein the flesh once ripe is tenaciously adhered over substantially the entire surface of the stone.
- (1) Note. For examples, see U.S. plant patent Nos. 759, 1324, and 1545.
- (2) Note. Included in this subclass is fruit with flesh which is predominantly yellow but may contain flecks of color other than yellow and red stone well color.
- (3) Note. Fruit which is described as "semi-clingstone" or "semi-freestone" is classified as "clingstone".

191 Dwarf or semi-dwarf:

This subclass is indented under subclass 190. Yellow-fleshed clingstone nectarine plant wherein the tree is characterized as forming internodes of not more than one-quarter inch in length, and wherein the tree does not exceed a height of seven feet in its lifetime.

192 Yellow-fleshed freestone:

This subclass is indented under subclass 187. Nectarine plant which bears fruit having flesh of predominantly yellow coloration and wherein the flesh once ripe readily separates from the stone leaving the stone substantially free of flesh.

- (1) Note. Included in this subclass is fruit with yellow flesh having flecks other than yellow and red stone well color.

193 Dwarf or semi-dwarf:

This subclass is indented under subclass 192. Yellow-fleshed freestone nectarine plant wherein the tree is characterized as forming internodes which do not exceed one-quarter inch in length, and wherein the height of the tree does not exceed seven feet in its lifetime.

194 Peach:

This subclass is indented under subclass 180. Fruit plant which belongs to the genus *Prunus* and species *persica*, which is characterized by production of fruit which has skin covered by a layer of fuzz, hairs, pubescence, or tomentum.

195 White-fleshed clingstone, semi-clingstone, or semi-freestone:

This subclass is indented under subclass 194. Peach plant which bears fruit having flesh of predominantly white coloration and wherein the flesh once ripe is tenaciously adhered over substantially the entire surface of the stone.

- (1) Note. Fruit which is described as "semi-clingstone" or "semi-freestone" is classified as "clingstone".
- (2) Note. Included in this subclass is fruit with predominantly white flesh but having flecks of another color or with red stone well color.

196 White-fleshed freestone:

This subclass is indented under subclass 194. Peach plant which bears fruit having flesh of predominantly white coloration and wherein the flesh once ripe readily separates from the stone leaving the stone substantially free of flesh.

- (1) Note. Included in this subclass is fruit with predominantly white flesh but having flecks of another color or with red stone well color.

197 Yellow-fleshed clingstone, semi-clingstone, or semi-freestone:

This subclass is indented under subclass 194. Peach plant which bears fruit having flesh of predominantly yellow coloration wherein the flesh once ripe is tenaciously adhered to the stone.

- (1) Note. Fruit which is described as "semi-clingstone" or "semi-freestone" is classified as "clingstone".
- (2) Note. Included in this subclass is fruit with predominantly yellow flesh but having flecks other than yellow.

198 Yellow-fleshed freestone:

This subclass is indented under subclass 194. Peach plant which bears fruit having flesh of predominantly yellow coloration wherein the flesh once ripe easily separates from the stone leaving the stone substantially free of flesh.

- (1) Note. Included in this subclass is fruit having predominantly yellow flesh but with flecks other than yellow.

199 Dwarf or semi-dwarf:

This subclass is indented under subclass 198. Yellow-fleshed freestone peach plant wherein the tree is characterized as forming internodes of not more than one-quarter inch in length, and wherein the height of the tree does not exceed seven feet in its lifetime.

200 Avocado:

This subclass is indented under subclass 156. Fruit plant which belongs to the genus *Persea* and species *americana*.

- 201 Citrus:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Citrus* having spritely tasting, segmented fruit covered by a rind of acidic, oily character.
- 202 Orange:**
This subclass is indented under subclass 201.
Citrus plant which belongs to the market class orange.
- 203 Bramble:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Rubus* normally characterized as "berry bushes" or "berry vines".
- 204 Raspberry:**
This subclass is indented under subclass 203.
Bramble plant known as a raspberry which bears fruit wherein the primary stem of the berry may be readily removed without disassociating the drupelets as a bunch.
- (1) Note. Members of this subclass may be commonly known as Black, Blackcap, European red, American, and Purple cane raspberries.
- (2) Note. Members of this subclass may be hybrids of species including *idaeus*, *strigosus*, *noglectus*, and *occidentalis*.
- 205 Grape:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Vitus*.
- 206 New World:**
This subclass is indented under subclass 205.
Grape plant which belongs to the American species (e.g., *lubruska*, *rotundifolia*, etc.) and is characterized notably by longevity, disease resistance, high vigor, small bunches of berries, and berries having a strong, musky aroma, and large seeds.
- 207 Green or yellow:**
This subclass is indented under subclass 205.
Grape plant which bears fruit having green or yellow coloration of flesh, juice, and skin.
- 208 Strawberry:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Fragaria*.
- 209 Everbearing:**
This subclass is indented under subclass 208.
Strawberry plant which has been developed to have an extended, lengthy harvest season; this plant is remontant in blooming and fruit setting habit and fails to ripen all fruit produced in one abbreviated season.
- 210 Pomegranate:**
This subclass is indented under subclass 156.
Fruit plant which is a subtropical ornamental or a fruiting shrub which belongs to the genus *Punica* and species *granatum* L., and is characterized by fruit which are large, globose berries, filled with sections of angular, hard seeds which are covered by juicy, red, pink, or yellow astringent acid pulp.
- 211 Ficus:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Ficus* which includes both fruit-bearing and ornamental members.
- (1) Note. Included in this subclass are the commercial groups of edible and ornamental figs and rubber plants. These plants may take the form of trees, shrubs, or vines. They may or may not form edible fruit. They are generally characterized as enduring, abuse tolerant, attractive indoor plants with glabrous leaf top surfaces of bright green; silvery to grayed-green bottom leaf surfaces, commonly having smooth color contrasting bark.
- 212 Flowering quince:**
This subclass is indented under subclass 156.
Fruit plant which belongs to the genus *Cydonia*.
- (1) Note. Species may variously be presented as *oblonga* Mill and *vulgaris* Pers., or plants may alternatively be defined as members of *Pyrus cydonia* L.

- 213 CONIFER:**
This subclass is indented under the class definition. Plant which is cone bearing, woody, with needlelike or scalelike leaves and aromatic resin ducts, and is usually evergreen and native to the temperate regions.
- 214 Juniper:**
This subclass is indented under subclass 213. Conifer which belongs to the genus *Juniperus*.
- 215 Yew:**
This subclass is indented under subclass 213. Conifer which belongs to the genus *Taxus*.
- 216 BROADLEAF TREE:**
This subclass is indented under the class definition. Plant which is woody, broad leaved, generally unbranched near the base, having one distinct or rarely several distinct trunks which attain a height greater than about 10 feet.
- (1) Note. Beech (*Fagus*) trees are proper for this subclass.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
247, for holly plants (*Ilex*).
- 217 Honey locust:**
This subclass is indented under subclass 216. Tree which belongs to the genus *Gleditsia* L.
- 218 Poplar:**
This subclass is indented under subclass 216. Tree which belongs to the genus *Populus* L.
- 219 Ash:**
This subclass is indented under subclass 216. Tree which belongs to the genus *Fraxinus*.
- 220 Dogwood:**
This subclass is indented under subclass 216. Tree which belongs to the family *Cornaceae*.
- 221 Elm:**
This subclass is indented under subclass 216. Tree which belongs to the family *Ulmaceae*.
- (1) Note. Plants classified in this subclass are usually in the genus *Ulmus* L.
- 222 Linden:**
This subclass is indented under subclass 216. Tree which belongs to the family *Tiliaceae*.
- (1) Note. Trees of this subclass are commonly called Basswood trees and are usually in the genus *Tilia* L.
- 223 Magnolia:**
This subclass is indented under subclass 216. Tree which belongs to the family *Magnoliaceae*.
- (1) Note. Plants classified in this subclass are usually in the genus *Magnolia* L.
- 224 Maple:**
This subclass is indented under subclass 216. Tree which belongs to the family *Aceraceae*.
- (1) Note. Boxelder is proper for this subclass.
- (2) Note. The genus for the maple is *Acer*.
- 225 Oak:**
This subclass is indented under subclass 216. Tree which belongs to the genus *Quercus*.
- (1) Note. Genus *Quercus* is part of the Beech (*Fagaceae*) family.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
216, for Beech (*Fagus* L) trees.
- 226 SHRUB OR VINE:**
This subclass is indented under the class definition. Plant which is woody, broad leaved, branched at or near the base, of shrubby or vining habit, and which may attain a height of about 15 feet.
- 227 Lantana:**
This subclass is indented under subclass 226. Plant which belongs to the genus *Lantana*.
- 228 Clematis:**
This subclass is indented under subclass 226. Plant which belongs to the genus *Clematis*.

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| <p>229 Chamaelaucium:
This subclass is indented under subclass 226.
Plant which belongs to the genus Chamaelaucium.</p> <p>230 Forsythia:
This subclass is indented under subclass 226.
Plant which belongs to the genus Forsythia.</p> <p>231 Heather:
This subclass is indented under subclass 226.
Plant which is marketed as heath or heather .</p> <p>(1) Note. Examples of plants which may be found in this subclass are those belonging to Chalone vulgaris, Erica persoluta, or any other species within Chalone and Erica.</p> <p>232 Mandevilla (Dipladenia):
This subclass is indented under subclass 226.
Plant which belongs to the genus Mandevilla and may be marketed under the alternate name Dipladenia.</p> <p>233 Oleander:
This subclass is indented under subclass 226.
Plant which belongs to the genus Nerium.</p> <p>234 Pittosporum:
This subclass is indented under subclass 226.
Plant which belongs to the genus Pittosporum.</p> <p>235 Nandina:
This subclass is indented under subclass 226.
Plant which belongs to the genus Nandina.</p> <p>236 Hop:
This subclass is indented under subclass 226.
Plant which belongs to the genus Humulus and the species lupulus.</p> <p>(1) Note. The harvest cones of the hops vine are used in the flavoring of beers, stouts, and ales.</p> <p>237 Potentilla:
This subclass is indented under subclass 226.
Plant which belongs to the genus Potentilla.</p> | <p>238 Azalea or rhododendron:
This subclass is indented under subclass 226.
Plant which belongs to the genus Rhododendron.</p> <p>239 Light to medium pink:
This subclass is indented under subclass 238.
Plant characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 681, 1706, and 2122.</p> <p>240 Dark pink to red:
This subclass is indented under subclass 238.
Plant characterized by blooms which range in color from a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 1394, 1484, and 1983, to red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 1283, 1717, and 2021.</p> <p>241 Barberry:
This subclass is indented under subclass 226.
Plant which belongs to the genus Berberis.</p> <p>242 Buddleia:
This subclass is indented under subclass 226.
Plant which belongs to the genus Buddleia.</p> <p>(1) Note. Plants of this subclass may also be identified by the common names Butterfly Bush and Summer Lilac.</p> <p>243 Camellia:
This subclass is indented under subclass 226.
Plant which belongs to the genus Camellia.</p> <p>244 Light to medium pink:
This subclass is indented under subclass 243.
Plant characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 907, 1800, and 1988.</p> |
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- 245 Dark pink to red:**
This subclass is indented under subclass 243.
Plant characterized by blooms which range in color from a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 1074, 1107, and 1215, to red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 589, 927, and 1583.
- 246 Euonymus:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Euonymus*.
- 247 Holly:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Ilex*.
- 248 Lilac:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Syringa*.
- (1) Note. Tree lilacs are properly classified in this subclass.
- 249 English ivy (i.e., *Hedera helix* variety):**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Hedera* and species *helix*.
- 250 Hydrangea:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Hydrangea*.
- 251 Veronica:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Veronica*.
- (1) Note. Plants proper for this subclass are commercially recognized as *Hebe* or *Hebe buxifolia*.
- 252 Crape myrtle:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Lagerstroemia*.
- 253 Pyracantha:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Pyracantha*.
- (1) Note. Plants of this subclass will commonly be referred to as *Firethorn*.
- 254 Raphiolepis:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Raphiolepis*.
- 255 Gardenia:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Gardenia*.
- 256 Bougainvillea:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Bougainvillea*.
- 257 Hibiscus:**
This subclass is indented under subclass 226.
Plant which belongs to the genus *Hibiscus*.
- 258 COMMERCIAL HERBACEOUS VEGETABLE OR HERB PLANT:**
This subclass is indented under the class definition. Plant which is in the market class of vegetable plant or herb plant.
- (1) Note. These plants or their extracts may be used as food, medicines, for cosmetic purposes, etc.
- 259 Mint:**
This subclass is indented under subclass 258.
Plant which belongs to the genus *Mentha*.
- 260 Asparagus:**
This subclass is indented under subclass 258.
Plant which belongs to the genus *Asparagus*.
- (1) Note. The asparagus is dioecious, having an extensive system of storage and feeder roots, a spear producing crown, and spears maturing into brush, fern-like stalks generally resembling a tree in branching habit, ranging between 4 to 12 feet in height, having cladodes in lieu of true leaves.
- (2) Note. Most activity in this subclass will be limited to commercial varieties of *A. officinalis*.

- 261 Tomato:**
This subclass is indented under subclass 258.
Plant which belongs to the genus and species *Lycopersicon esculentum*.
- 262 Rhubarb:**
This subclass is indented under subclass 258.
Plant which belongs to the genus *Rheum* (*R. x cultorum*).
- 263.1 HERBACEOUS ORNAMENTAL FLOWERING PLANT (NICOTINIA, NASTURTIUM, ETC.):**
This subclass is indented under the class definition. Plant which is herbaceous and principally characterized by and grown for its attractive blossoms.
- (1) Note. Annuals, biennials, perennials, and flowering house plants are proper for this subclass if not provided for specifically elsewhere (e.g., *nicotinia*, *nasturtium*, etc.).
- 264 African violet:**
This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Saintpaulia*.
- 265 White:**
This subclass is indented under subclass 264.
Violet which has white petal color, as typified by U.S. plant patent Nos. 4777, 5190, and 7685.
- 266 Pink:**
This subclass is indented under subclass 264.
Violet which has pink petal color, as typified by U.S. plant patent Nos. 5016, 5494, and 7261.
- 267 Red-purple:**
This subclass is indented under subclass 264.
Violet which has red-purple petal color, as typified by U.S. plant patent Nos. 7824, 7704, and 7028.
- 268 Purple or blue with white edge:**
This subclass is indented under subclass 264.
Violet which is purple or blue but also has a petal edge band or margin colored white, as typified by U.S. plant patent Nos. 1077, 4972, and 5701.
- 269 Single color with double or semi-double flower:**
This subclass is indented under subclass 264.
Violet which has a petal coloration which is essentially monochromatic and wherein the flowers have more than one single layer of petals, as typified by U.S. plant patent Nos. 4303, 5024, and 7331.
- 270 Multicolor:**
This subclass is indented under subclass 264.
Violet which has petals which are bicolored or which have blushes, patches, spots, or other patterns of multiple colors, as typified by U.S. plant patent Nos. 3146, 5292, and 6525.
- (1) Note. Purple or blue violets which also have a white marginal band are not included in this subclass.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
268, for purple or blue violets which also have a white marginal band.
- 271 With double or semi-double flower:**
This subclass is indented under subclass 270.
Multicolor violet which has more than one single layer of petals, as typified by U.S. plant patent Nos. 4308, 7323, and 8136.
- 272 Carnation or pink:**
This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Dianthus*.
- 273 Spray type:**
This subclass is indented under subclass 272.
Carnation or pink which by their genetic makeup express lateral flowerbuds with a terminal (primary) flower bud which render a spray of flowers on a single stem.
- 274 White:**
This subclass is indented under subclass 273.
Spray type carnation or pink characterized by blooms which are white, as typified by U.S. plant patent Nos. 4099, 6571, and 6600.
- 275 Yellow:**
This subclass is indented under subclass 273.
Spray type carnation or pink characterized by blooms which are yellow, as typified by U.S. plant patent Nos. 3663, 5290, and 6273.

276 Light to medium pink:

This subclass is indented under subclass 273. Spray type carnation or pink characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 747, 5511, and 6663.

277 Dark pink:

This subclass is indented under subclass 273. Spray type carnation or pink characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 3391, 5574, and 5793.

278 Red:

This subclass is indented under subclass 273. Spray type carnation or pink characterized by blooms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 5517, 6554, and 6626.

279 White:

This subclass is indented under subclass 272. Carnation or pink characterized by blooms which are white, as typified by U.S. plant patent Nos. 3437, 6417, and 6442.

280 Yellow:

This subclass is indented under subclass 272. Carnation or pink characterized by blooms which are yellow, as typified by U.S. plant patent Nos. 3341, 5526, and 6447.

281 Light to medium pink:

This subclass is indented under subclass 272. Carnation or pink characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation and from high to very high brilliance), as typified by U.S. plant patent Nos. 499, 750, and 767.

282 Dark pink:

This subclass is indented under subclass 272. Carnation or pink characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from

low to medium saturation and from high to very high brilliance), as typified by U.S. plant patent Nos. 133, 319, and 2034.

283 Red:

This subclass is indented under subclass 272. Carnation or pink characterized by blooms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 148, 372, and 533.

284 Chrysanthemum (e.g., Chrysanthemum indicum, etc.):

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Chrysanthemum* or the genus *Dendranthema* (e.g., *Chrysanthemum indicum*, etc.).

- (1) Note. Proper for this subclass are chrysanthemums, chrysanthi, or mums which are other than *Chrysanthemum morifolium*, *Dendranthema grandiflora*, *Chrysanthemum hortorum*, or shasta daisy. The chrysanthemums proper for this subclass may be decorative, single (daisy), semi-double, anemone, etc. in type.

285 Shasta daisy:

This subclass is indented under subclass 284. Plant which is a shasta daisy (i.e., *C. maximum*, *Leucanthemum X superbum*, *C. leucanthemum X C. maximum*).

286 Chrysanthemum morifolium or Dendranthema grandiflora (i.e., Chrysanthemum hortorum):

This subclass is indented under subclass 284. *Chrysanthemum* which belongs to *Chrysanthemum morifolium*, *Dendranthema grandiflora*, or *Chrysanthemum hortorum*.

- (1) Note. This and indented subclasses include the genera and species *C. morifolium*, *D. grandiflora*, and *C. hortorum* which may or may not be decorative (e.g., single, daisy, anemone, etc.).
- (2) Note. This subclass is proper for the nondecorative mums which are not specifically provided for below. This subclass includes chrysanthemums having five or fewer rows of ray florets such as the singles and anemones, and also the

semi-doubles in which the ray florets are arranged in more than five rows but whose discs are clearly evident as daisy-like eyes.

SEE OR SEARCH THIS CLASS, SUBCLASS:

287+, for *Chrysanthemum morifolium*, *Dendranthema grandiflora*, or *Chrysanthemum hortorum* decorative chrysanthemums.

294+, for *Chrysanthemum morifolium*, *Dendranthema grandiflora*, or *Chrysanthemum hortorum* nondecorative (e.g., single, daisy, anemone, etc.) chrysanthemums of a color specified in the subclass titles.

287 Decorative (i.e., double-flowered and indistinct eye of disc floret):

This subclass is indented under subclass 286. Chrysanthemum characterized as having more than five rows of ray florets and an indistinct eye of disc florets.

- (1) Note. Decorative mums may be seen in various forms such as incurves, decoratives, pompoms, spiders, threads, and quills.

288 White:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 1171, 2005, and 2025.

289 Yellow:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which are yellow (a color which resembles the hue of ripe lemons or the color of sulphur), as typified by U.S. plant patent Nos. 1348, 1547, and 1676.

290 Orange:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from

medium to high), as typified by U.S. plant patent Nos. 1697, 1956, and 2029.

291 Light to medium pink:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to very high brilliance), as typified by U.S. plant patent Nos. 1020, 1168, and 1306.

292 Dark pink:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 1132, 1310, and 1824.

293 Red:

This subclass is indented under subclass 287. Decorative chrysanthemum characterized by blooms which are red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 1165, 1877, and 1889.

294 White or cream:

This subclass is indented under subclass 286. Chrysanthemum characterized by blooms which are white or cream as typified by U.S. plant patent Nos. 5475 and 3499.

295 Yellow or gold:

This subclass is indented under subclass 286. Chrysanthemum characterized by blooms which are yellow or gold as typified by U.S. plant patent Nos. 4529 and 3189.

296 Orange or bronze:

This subclass is indented under subclass 286. Chrysanthemum characterized by blooms which are orange or bronze as typified by U.S. plant patent Nos. 2019 and 3445.

297 Pink:

This subclass is indented under subclass 286. Chrysanthemum characterized by blooms which are pink as typified by U.S. plant patent Nos. 5815 and 1957.

- 298 Red:**
This subclass is indented under subclass 286. Chrysanthemum characterized by blooms which are red as typified by U.S. plant patent Nos. 3446 and 5414.
- 299 Freesia:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus Freesia.
- (1) Note. Freesias are part of the Iris family. They are grown from corms and have fragrant, flaring, tubular flowers in a one-sided cluster at right angles to the stem and to the tall erect leaves.
- 300 Fuchsia:**
This subclass is indented under subclass 263.1. Plant characterized as a chiefly tropical plant belonging to the genus Fuchsia and having drooping purplish, white, or reddish flowers.
- (1) Note. Fuchsias are part of the Evening Primrose family. They have simple, usually opposite leaves and spectacular blossoms arising from the leaf axils on new growth.
- 301 Gladiolus:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus Gladiolus and which have sword-shaped leaves of parallel venation, and a long showy flower spike which progressively opens flowers from the basal portion.
- 302 Euphorbia:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus Euphorbia.
- (1) Note. Euphorbia is also commonly known as a member of the Spurge family which includes Flowering Spurge, Snow-on-the-Mountain, Fire Glow, etc.
- 303 Poinsettia:**
This subclass is indented under subclass 302. Euphorbia plant which belongs to the genus Euphorbia and species pulcherrima having large showy bracts under small flowers.
- 304 White or cream:**
This subclass is indented under subclass 303. Poinsettia plant characterized by blooms which are white as typified by U.S. plant patent Nos. 1802 and 2731.
- 305 Yellow:**
This subclass is indented under subclass 303. Poinsettia plant characterized by blooms which are substantially of a yellowish hue, as typified by U.S. plant patent No. 7229.
- 306 Pink:**
This subclass is indented under subclass 303. Poinsettia plant characterized by blooms which are pink as typified by U.S. plant patent Nos. 2501 and 3735.
- 307 Red:**
This subclass is indented under subclass 303. Poinsettia plant characterized by blooms which are red as typified by U.S. plant patent Nos. 4310 and 6104.
- 308 Verbena:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus Verbena and is characterized by their low habit, palmately divided or lobed, hairy leaves, delicate, colorful blossom clusters and drought tolerance.
- 309 Alstroemeria:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus Alstroemeria.
- (1) Note. Genus Alstroemeria may include any of about 50 species of plants which are characterized as being forced from tuberous roots, forming a conspicuous tender crown, with flowering stems to 2 feet tall and more, and producing 9 to 12 flowers of funnel shape which are composed of 6 segments formed in 2 circles with the inner circle being distinct. Flowers may be spotted and multicolored.
- (2) Note. The plants within this subclass are part of the Amaryllis family and may also be identified as "Inca lily" or "Peruvian lily".

310 Iris:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Iris*.

- (1) Note. These plants which are part of the family Iridaceae are characterized as being rhizomatous or bulbous, having sword-like, stiff, blue-green to green leaves of parallel venation; colorful, multiflowered spikes, with flowers emerging from sheathing scales on the scape. The flowers have three outer (fall) reflexed petals which may be bearded basally and three inner (erect) standard segments.

311 Orchid:

This subclass is indented under subclass 263.1.
Plant which belongs to the family Orchidaceae.

- (1) Note. These plants are characterized as having sympodial or monopodial growth, pseudobulbs, leaves of parallel venation, and flowers which are terminal, and which are normally composed of three sepals, two upper and one lower bearded petal centering a column.
- (2) Note. While this family contains over 50,000 members of a myriad of descriptions, predominant commercial species will be limited to *Cattleya*, *Vanda*, and *Cymbidium*. This subclass is intended to comprehend all plants which are to be commercially marketed as "Orchid" plants by art recognition.

312 Daylily:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Hemerocallis*.

313 Lily:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Lilium*.

- (1) Note. These plants are characterized as emerging from scaled bulbs, lance-like leaves, and funnel to bell-shaped flowers with six spreading or recurving segments, with plural, long-lasting flowers opening progressively on individual stems spaced along or radiating from the top portion of the main stem.

- (2) Note. More than 80 species and inter-specific hybrids of lilies are included in this subclass.

314 Asiatic:

This subclass is indented under subclass 313.
Lily which belongs to the market class Asiatic hybrid lily.

- (1) Note. Asiatic lilies are characterized by the presence of a nectary structure at the base of each of the tepals and the absence of pilose projections on the out-facing surfaces of the tepals

315 Oriental:

This subclass is indented under subclass 313.
Lily which belongs to the market class Oriental hybrid lily.

- (1) Note. Oriental lilies are characterized by the absence of a nectary structure at the base of each of the tepals and the presence of pilose projections on the out-facing surfaces of the tepals.

316 Peony:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Paeonia*, having flowers which are large, showy, usually solitary, and terminal of varied coloration (e.g., pink, white, cream, red, etc.).

317 Impatiens:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Impatiens*.

- (1) Note. *Impatiens* are tender, succulent, having foliage in colors from green to multi-color variations, and single or double spurred flowers of shades in white, pink, orange, and red, and which form seed pods which forcibly dehisce seeds on maturity.

318.1 New Guinea (e.g., bicolor, multicolor, etc.):

This subclass is indented under subclass 317.
Impatiens plants which belong to the species *I. hawkeri*.

- (1) Note. New Guinea *impatiens* included in this subclass may have petals which are bicolored or characterized by blooms

exhibiting a splashing, speckling, dotting, spotting, flecking, marbling color, or variegation of two or more distinct colors, or other patterns of multiple colors on the petals as typified by U.S. plant patent Nos. 8937, 8904, 13699, 10255, 13009, and 13704.

318.2 White:

This subclass is indented under subclass 318.1. New Guinea impatiens which are characterized by blooms which are white (a color comparable to fresh snow; a neutral or achromatic color of highest brilliance; the lightest gray), as typified by U.S. plant patent Nos. 13001, 13373, 8422, 9138, 11581, and 14170.

318.3 Orange, orange-red, or salmon:

This subclass is indented under subclass 318.1. New Guinea impatiens which are characterized by blooms which are orange (a color varying from reddish red-yellow to red-yellow, in saturation from high to very high, and in brilliance from medium to high) or salmon (a color which is reddish red-yellow, of medium saturation and high brilliance), as typified by U.S. plant patent Nos. 13700, 13468, 9144, 12695, and 10870.

318.4 Light to medium pink:

This subclass is indented under subclass 318.1. New Guinea impatiens which are characterized by blooms which range from a light to a medium shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 12095, 12091, 13043, 12567, 13812, 13579, 13697, and 9668.

318.5 Dark pink:

This subclass is indented under subclass 318.1. New Guinea impatiens which are characterized by blooms which are a dark shade of pink (a color varying from reddish blue-red to yellowish red, from low to medium saturation, and from high to very high brilliance), as typified by U.S. plant patent Nos. 13714, 12234, 8409, 13581, and 13711.

318.6 Red-purple, purple, or lavender:

This subclass is indented under subclass 318.1. New Guinea impatiens which have a petal color which is essentially within the color

ranges of purple, red-purple, or lavender, as typified by U.S. plant patent Nos. 13224, 12561, 14023, 13713, 13840, 12545, 13096, 12093, 14203, 11370, 10860, 10432, 13839, and 13712.

318.7 Red:

This subclass is indented under subclass 318.1. New Guinea impatiens which have a petal color which is red (a color ranging from that of blood to that of a ruby), as typified by U.S. plant patent Nos. 12096, 14000, 11427, 13926, 12096, 8111, 8397, and 10237.

319 Double flowered:

This subclass is indented under subclass 318.1. New guinea impatiens which have more than one single row of petals.

320 Phlox:

This subclass is indented under subclass 263.1. Plant which belongs to the genus Phlox and which is characterized by having lance-shaped leaves and flower clusters which may be white, pink, purple, etc.

321 Dahlia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus Dahlia and which is a tender, foliaceous plant characterized by having tuberous roots and large, colorful flowers.

- (1) Note. Flowers of plants of this subclass may be of a myriad of colors and shades, single, semi-double, or fully double. Plant height may range from several inches to several feet. Foliage may be green or purple.

322 Snapdragon:

This subclass is indented under subclass 263.1. Plant which belongs to the genus Antirrhinum.

- (1) Note. These plants are characterized by having a plurality of individual progressively opening flowers on a spike which bear an imagined resemblance to the mouth of a dragon; flowers are showy, two-lipped, variously colored, and bloom for long periods.

323. Viola:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Viola*.

- (1) Note. These plants bear flowers which resemble those of violets, having five petals, the lower three normally or occasionally being distinctly rayed, and mature flowers normally flat when fully expanded; flowers are rich and wide in color variation, but flowers may be monochromatic.
- (2) Note. The genus *Viola* includes both the pansy and the violet.

324. Geranium:

This subclass is indented under subclass 263.1.
Plant which belongs to the genera *Pelargonium* or *Geranium*.

- (1) Note. The genus *Pelargonium* includes the common garden geranium while the members of the genus *Geranium* are commonly known as Cranesbills.
- (2) Note. These plants have divided to rounded leaves which are frequently colorfully rayed, normally characteristically scented, and which bear large clusters of flowers on short flower stems carried by a primary stem to reside atop the foliage; numerous, showy flowers of normally the same color and shade are open at once to give the appearance of a ball; and flower colors are normally in shades of red, pink, white, etc.

325. Zonal:

This subclass is indented under subclass 324.
Geranium plant which belongs to *Pelargonium zonale* or *Pelargonium X hortorum*.

- (1) Note. The Zonal geraniums are also known as Fish geraniums.

326. White:

This subclass is indented under subclass 325.
Zonal geranium plant which has a petal color which is essentially white, as typified by U.S. plant patent Nos. 8894, 9796, and 10012.

327. Peach, salmon, or orange:

This subclass is indented under subclass 325.
Zonal geranium plant which has a petal color which is essentially within the color ranges of peach, salmon, and orange, as typified by U.S. plant patent Nos. 7936, 8285, and 9773.

328. Pink:

This subclass is indented under subclass 325.
Zonal geranium plant which has an essentially pink petal color, as typified by U.S. plant patent Nos. 4215, 6708, and 9572.

329. Purple, red-purple, or lavender:

This subclass is indented under subclass 325.
Zonal geranium plant which has a petal color which is essentially within the color ranges of purple, red-purple, or lavender, as typified by U.S. plant patent Nos. 2868, 7083, and 9307.

330. Red:

This subclass is indented under subclass 325.
Zonal geranium plant which has an essentially red petal color, as typified by U.S. plant patent Nos. 9551, 9747, and 9774.

331. Regal or Martha Washington:

This subclass is indented under subclass 324.
Geranium plant which belongs to *Pelargonium X domesticum*.

- (1) Note. Martha Washington geraniums are also known as Summer Azaleas.

332. Ivy leaf:

This subclass is indented under subclass 324.
Geranium plant which belongs to *Pelargonium peltatum* and which is commonly known as Ivy leaf geranium.

- (1) Note. The Ivy leaf geranium is also called the Hanging geranium.

333. Streptocarpus:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus *Streptocarpus*.

- (1) Note. *Streptocarpus* is characterized by having low growing, deep green, generally flat but rugose leaves of normally acuminate shape, and colorful, deep throated, trumpet-formed normally clus-

tered, five (fused) petals, on short pedicels carried by long, pubescent stems; and flower colors are in white, shades of blue, violet, purple, pink, and red.

334 Gazania:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Gazania*.

- (1) Note. *Gazanias* are characterized by being semi-tender, low growing or spreading, flowering plants which tend to cover the soil when undisturbed; are sun loving and express colorful flowers which normally contain distinctive marks on basal portions of ray florets; flowers are normally single to semi-double, but may be fully double; and foliage is usually glabrous, but may be pubescent.

335 Kalanchoe:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Kalanchoe*.

- (1) Note. *Kalanchoes* are characterized as being day-length responsive, having thick, usually rounded, succulent leaves and large clusters of showy, colorful florets which open nearly uniformly, giving the effect of tight masses of color held closely above foliage; and flower color is in shades of reds, yellows, golds, pinks, violets, etc.
- (2) Note. Some long-stemmed varieties are used as cut flowers.

336 White:

This subclass is indented under subclass 335. *Kalanchoe* having a white flower color, as typified by U.S. plant patent Nos. 8343 and 10238.

337 Purple:

This subclass is indented under subclass 335. *Kalanchoe* having a purple flower color, as typified by U.S. plant patent Nos. 4298, 4306, and 6878.

338 Yellow:

This subclass is indented under subclass 335. *Kalanchoe* having a yellow flower color, as typified by U.S. plant patent Nos. 3389, 3854, and 4744.

339 Pink:

This subclass is indented under subclass 335. *Kalanchoe* having a pink flower color, as typified by U.S. plant patent Nos. 3290, 4343, and 5384.

340 Orange:

This subclass is indented under subclass 335. *Kalanchoe* having an orange flower color, as typified by U.S. plant patent Nos. 5961, 7792, and 8998.

341 Red:

This subclass is indented under subclass 335. *Kalanchoe* having a red flower color, as typified by U.S. plant patent Nos. 7524, 7794, and 9839.

342 Aquatic plant:

This subclass is indented under subclass 263.1. Plant which is an herbaceous plant which grows or lives in water.

- (1) Note. An example of a plant found in this subclass is a water lily, which is a member of the genus *Nymphaea*, etc.

343 Begonia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Begonia*.

- (1) Note. Included in this subclass are begonias of the commercial house plant type as well as types having conspicuous foliage and inconspicuous flowering.
- (2) Note. Begonias are tropical and may have brightly colored and/or veined irregular leaves and waxy appearing single to fully double inconspicuous or attractive flowers of a variety of soft to vibrant colors.

344 Rieger:

This subclass is indented under subclass 343. *Begonia* plant which is known and marketed generally as "tuberous" rather than "fibrous" begonia.

- (1) Note. Rieger begonias botanically belong to species such as *elatio*, *scotrana*, *tuberhybrida*, *hiemalis* (Fotsch) and hybrids involving such species and

usually have flowers of outstanding size, and/or number, and/or doubleness and/or color, or combinations of two or more.

345 White:

This subclass is indented under subclass 344. Rieger begonia plant having white petal color, as typified by U.S. plant patent Nos. 3785, 6216, and 7043.

346 Yellow:

This subclass is indented under subclass 344. Rieger begonia plant having petal colors in the yellow range, as typified by U.S. plant patent Nos. 3474, 3750, and 4124.

347 Orange or orange-red:

This subclass is indented under subclass 344. Rieger begonia plant having petal colors in the orange to orange-red range, as typified by U.S. plant patent Nos. 3365, 3868, and 7039.

348 Pink:

This subclass is indented under subclass 344. Rieger begonia plant having petal colors in the pink range, as typified by U.S. plant patent Nos. 5179, 5746, and 6435.

349 Red or red-purple:

This subclass is indented under subclass 344. Rieger begonia plant having petal colors in the red to red-purple range, as typified by U.S. plant patent Nos. 3904, 4210, and 6928.

350 Achimenes:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Achimenes* or is marketed as *Achimenes*.

- (1) Note. *Achimenes*, also called Hot Water plant, is characterized as being perennial, having scaly, fleshy rhizomes, and simple, toothed leaves which may be fleshy and pubescent. It may have one to several axil or cyme, a five parted, tubular to salviiform corolla, with a three part lower lip and a two part upper lobe.

351 Exacum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Exacum*.

- (1) Note. *Exacum* is characterized as a biennial or perennial glabrous plant which is

erect, densely branched, sessile, or branched simple, entire leaves; flowers cymose, leafy, forking or solitary, four to five lobed calyx bear corolla which are salviiform to rotate, tubular-cylindric, and having four to five lobes which are ovate to oblong.

- (2) Note. *E. affine* which is a popular house plant may also be called German violet or Persian violet.

352 Bouvardia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Bouvardia*.

- (1) Note. *Bouvardia* is characterized by having ovate or lanceolate to oblong leaves which are entire to lacinate and have stipule sheathing. Flowers in terminal cymes or corymbs or solitary. Flower colors in white, yellow, pink, and red. Calyx tube is globose to companulate, with four lobes of linear shape; the corolla is tubular to salver shaped with four lobes.

353 Hosta:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Hosta*.

- (1) Note. *Hosta* may also be known as Plantain lily. It is a member of the Liliaceae family having stolonaceous roots; rosette clump forming; long petioled, entire, generally heart-shaped leaf; and six-lobed companulate or funnelform, generally inconspicuous flowers on scapes.

354 Gypsophila:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Gypsophila*.

- (1) Note. *Gypsophila* are also known as Baby's Breath.
- (2) Note. *Gypsophila* is characterized as an herb of rosette form arising from woody, perennial stock, with lanceolate to linear, alternate leaves on bolting stem; flowers are numerous, tiny, on spreading panicles; and calyx five-parted and five petals. Flowers may be double and are usually white or light pastel shades.

355 Aster:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Aster.

- (1) Note. Asters are characterized as herbaceous perennials with stalked lower, sessile higher leaves; discoid to radiate capitulum which are solitary to clustered in corymbs; any of a multitude of species and cross-species plants within the genus Aster.

356 Petunia:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Petunia.

- (1) Note. Petunias are characterized as being annual or perennial plants having pubescent stems, solitary flowers in upper leaf axils; having five-lobed calyx and five-lobed salverform to funnelform usually equally lobed, complete, ruffled or crimped corolla of solid, mixed, and varied color patterns.

357 Gerbera:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Gerbera.

- (1) Note. Gerbera is also known as Transvaal daisy or Barberton daisy.
- (2) Note. Gerberas are characterized as having hairy, basal rosette, entire to dentate or pinnately lobed petiolate leaves ascending to spreading to form mounded specimens; capitulum is radiate, solitary on long peduncles, densely, doubly ray flowered, blending to disc florets of same to contrasting coloration.

358 Limonium:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Limonium.

- (1) Note. Limonium is also known as statice, sea lavender, and marsh rosemary.
- (2) Note. These plants have a simple, entire, or pennatifid, basal rosetting or are clustered at axils. The calyx is tubular with a

five-lobed tubular corolla connate only at the base.

359 Helichrysum:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Helichrysum.

- (1) Note. This plant is also known as the Everlasting flower.
- (2) Note. Helichrysum is described as capitulum radiate, discoid, solitary, or several often in a corymb. Phyllaries in few to many, imbricate series, rigid, scarious, white, variously colored, few to many flowers usually in shades of yellow.

360 Osteospermum:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Osteospermum.

- (1) Note. These plants have alternate, entire, toothed pennatifid or pinnatisect foliage; radiate capitulum; few to many solitary terminals or may have loose umbellate or corymbose panicles.

361 Eryngium:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Eryngium.

- (1) Note. Eryngium plants are commonly called eryngo or sea holly.
- (2) Note. These plants are characterized as perennials, flower stem is ascending and branching, leaves basal, entire to three-pinnatisect, linear-lanceolate to ovate, coriaceous, membranous, petillate or sessile, and sometimes spiny. Flowers are small, packed involucre bracts and spiny.

362 Anigozanthos:

This subclass is indented under subclass 263.1.
Plant which belongs to the genus Anigozanthos.

- (1) Note. This plant is also known as Kangaroo Paw, Cat's Paw, or Australian Sword Lily.

- (2) Note. This plant is a perennial and is characterized as having leaves narrow, mostly basal; flowers in one-sided woolly racemes, hairy inside; and the tube long and flaring, slightly irregular.
- 363 Scaevola:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus *Scaevola*.
- (1) Note. There are more than 90 species in this genus and they are characterized by having solitary flowers from leaf axils or in few flowered cymes; corolla tube is slit to the base on the upper side; lobes are subequal, spreading, wings equal; and five stamens.
- 364 Spathiphyllum:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus *Spathiphyllum*.
- (1) Note. *Spathiphyllum* is commonly known as Spathe Flower.
- 365 Anthurium:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus *Anthurium*.
- (1) Note. *Anthurium* is commonly known as Tail Flower.
- 366 White or cream:**
This subclass is indented under subclass 365. *Anthurium* plant which has a spathe and spadix of white or cream coloration, as typified by U.S. plant patent Nos. 8129, 8131, and 8821.
- 367 Pink:**
This subclass is indented under subclass 365. *Anthurium* plant which has a spathe and spadix of pink coloration, as typified by U.S. plant patent Nos. 9450 and 9669.
- 368 Purple, purple-red, or lavender:**
This subclass is indented under subclass 365. *Anthurium* plant which has a spathe and spadix of purple, purple-red, or lavender coloration, as typified by U.S. plant patent Nos. 8375, 9686, and 9449.
- 369 Red:**
This subclass is indented under subclass 365. *Anthurium* plant which has a spathe and spadix of red coloration, as typified by U.S. plant patent Nos. 4375, 4376, and 7044.
- 370 Bromeliad:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus *Bromeliaceae*.
- (1) Note. Bromeliad plants may be epiphytic, have stiff sword-like, pointed, and sharp leaves, and may have strikingly colored, patterned foliage and spectacular, complex vibrantly colored flowers. They are widely used as house plants.
- 371 Guzmania:**
This subclass is indented under subclass 370. Bromeliad plant which belongs to the genus *Guzmania*.
- 372 Cactus:**
This subclass is indented under subclass 263.1. Plant which belongs to the genus *Cactaceae*.
- (1) Note. Cacti are generally characterized by a high tolerance to drought, thick fleshy appendages, thick waxy cuticles covering exposed plant parts, often the presence of needles, and normally slow growth. They may also have showy flowers such as the Christmas cactus.
- 373 HERBACEOUS ORNAMENTAL FOLIAGE PLANT:**
This subclass is indented under the class definition. Plant which is herbaceous and principally characterized by and grown for its ornamental foliage.
- (1) Note. The plants in this and the indented subclasses are normally plants which are commercially marketed as "house plants".
- 374 Syngonium:**
This subclass is indented under subclass 373. Plant which belongs to the genera *Syngonium* Schott or *Nepenthytis* Hort.

375 Calathea:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Calathea*.

- (1) Note. This is a large family encompassing plants of a myriad of habits, sizes, and origins such as desert or forest.

376 Aglaonema:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Araceae* and is commercially marketed under the name *Aglaonema*.

- (2) Note. Some species may have foliage, but foliage may be seasonal (i.e., on new growth) and temporary.

- (1) Note. Some species of *Aglaonema* are known as Chinese evergreen.

- (3) Note. Some species may exhibit large or showy, colorful flowers and/or bear edible fruit.

377 Schefflera:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Schefflera*.

- (4) Note. Hoyas are characterized as forming vines with large, green, and frequently variegated by marginal cream coloration, thick leaves which curve inwardly toward the undersurface.

- (1) Note. *Schefflera* is commonly known as Umbrella Tree.

381 Philodendron:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Philodendron*.

378 Dieffenbachia:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Dieffenbachia*.

- (1) Note. These plants are characterized by having a vining habit and being a climbing tropical, tender vine.

- (1) Note. These plants are characterized by having thick, succulent stems with distinct, leaf sheaf defined segments at the nodes, and attractive, patterned variegations in the foliage.

- (2) Note. Plants in this subclass vary in leaf shape, leaf and leaf petiole coloration, leaf size and leaf coloration, and may vary in ploidy.

- (2) Note. *Dieffenbachia* is also known as dumb-cane.

382 Sansevieria:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Sansevieria*.

379 Fern:

This subclass is indented under subclass 373.
Plant which is a flowerless, seedless, vascular plant of the class *Filicinae*.

- (1) Note. These plants are characterized by having short to long, thick and stiff lance-shaped leaves which are frequently patterned in various shades of green and which may be marginally variegated with yellow, and which normally spread by rhizomatous appendages. *Sansevieria* is normally grown as a house plant.

- (1) Note. Ferns have frond-like foliage and normally or commonly have a multitude of opposite leaflets and reproduce by spores.

- (2) Note. Included in this subclass are Staghorn and Bird Nest ferns which have large simple fronds of various shapes without leaflets.

- (2) Note. This plant may be referred to as Mother-in-law's tongue or Snake plant.

380 Hoya:

This subclass is indented under subclass 373.
Plant which belongs to the genus *Hoya*.

383 Dracaena or Cordyline:

This subclass is indented under subclass 373.
Plant which belongs to the genera *Dracaena* or *Cordyline*.

- (1) Note. Cordylines differ only slightly from Dracaenas and are sometimes listed as such.
- (2) Note. These plants are characterized as having linear, strap-like foliage and may have highly attractive and notably long-lasting flower presentations.
- (3) Note. The Dracaena is sometimes called the Corn plant. A popular variety of Cordyline is the Hawaiian ti plant.
- 384 GRASS (e.g., pampas, elephant, etc.):**
This subclass is indented under the class definition. Plant which belongs to the family Gramineae.
- (1) Note. These plants have narrow leaves, hollow and jointed stems, and spikes of clusters of membranous flowers borne in small spiklets.
- 385 Sugar cane:**
This subclass is indented under subclass 384. Plant which belongs to the genus and species *Saccharum officinarum*.
- (1) Note. Sugar cane is tall and has thick tough stems.
- 386 Perennial corn:**
This subclass is indented under subclass 384. Plant which is perennial and which has within its genetic background at least one of the antecedents of modern corn (i.e., *Zea mays*).
- 387 Salt grass:**
This subclass is indented under subclass 384. Plant which belongs to the genus *Distichlis*.
- 388 Recreational turf or pasture grass:**
This subclass is indented under subclass 384. Plant which is normally used as a cover for a tract of ground.
- (1) Note. These grasses may be adapted for either recreational or pasture use.
- 389 Bermuda grass:**
This subclass is indented under subclass 388. Grass which belongs to the genus *Cynodon*.
- (1) Note. Plants included in this subclass may be members of *Cynodon dactylon*, *Cynodon transvaalensis*, or interspecific hybrids within the genus *Cynodon*.
- 390 Zoysia grass:**
This subclass is indented under subclass 388. Grass which belongs to the genus *Zoysia*.
- (1) Note. Plants included in this subclass may be members of *Zoysia japonica*, *Zoysia matrella*, or interspecific hybrids within the genus *Zoysia*.
- 391 Buffalo grass:**
This subclass is indented under subclass 388. Grass which belongs to *Buchloe dactyloides* and is of any ploidy level of a plant within this species.
- 392 St. Augustine grass:**
This subclass is indented under subclass 388. Grass which belongs to the genus *Stenotaphrum*.
- (1) Note. Included in this subclass is the species *S. secundatum* or related species which share the same market class.
- (2) Note. This grass is noted to have thick, heavy stems and leaves of normally two spikes per node, aggressive growth, forming heavy, strong ground covers; a spreading grass.
- 393 Bluegrass:**
This subclass is indented under subclass 388. Grass which belongs to the genus *Poa*.
- (1) Note. A common species member of this genus is *P. pratensis*.
- (2) Note. Bluegrass is characterized as a bunch grass with some ability to spread due to rhizomes and producing seed largely to predominantly through apomixis; having fine, dense, lush foliage of pleasing green to blue green hues, and forming abundant seed panicles on slender, strong spikes.

394 MUSHROOM:

This subclass is indented under the class definition. Plant which is a multicellular fleshy fungi of the class Basidiomycetes, characteristically having an umbrella-shaped cap borne on a stalk.

- (1) Note. The entire cap and stalk of the mushroom are composed of hyphae. The above ground portion of the mushroom is the fruiting body.

395 MISCELLANEOUS:

This subclass is indented under the class definition. Plant not provided for above.

397 Aconitum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Aconitum*.

- (1) Note. The genus *Aconitum* is part of the Ranunculaceae family and may also be referred to as Monk's Hood. *Aconitum* plants include about 100 species of annual, biennial, or perennial herbs with single galeate (helmet or hood-shaped) flowers arranged in racemes or racemose panicles and known as poisonous plants largely growing in areas of damp meadows and woodlands in mountain areas.

398 Agapanthus:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Agapanthus*.

- (1) Note. The genus *Agapanthus* is part of the Liliaceae family. *Agapanthus* plants have inflorescence with many flowered terminal umbels of large tubular to campanulate florets of dark violet or deep blue to white in coloration.

399 Agastache:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Agastache*.

- (1) Note. The genus *Agastache* is part of the Labiatae family and may also be referred to as Mexican Hyssop or Giant Hyssop. *Agastache* plants include some 20 species of aromatic upright or procumbent perennials with branching stems and spreading rootstocks; with leaves that

are usually petiolate or sessile, ovate, or deltoid-ovate with margins crenate-serrate, or rarely, with leaves that are lanceolate or linear with margins entire, glabrous to pubescent; with inflorescence spicate or narrowly paniculate, flowers in dense sessile verticals, subtending bracts often conspicuous; with corolla that are red, orange, rose, violet, blue or white, without hairs on the throat of the 2-lipped tube. *Agastache* spp can be successfully cultivated in sheltered, well-drained sites.

400 Ageratum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Ageratum*.

- (1) Note. The genus *Ageratum* is part of the Compositae family and includes some 43 species of annual and perennial herbs and shrubs with stems erect or creeping, sometimes branched; leaves orbicular to linear, usually acute, entire or divided, often pilose, especially on veins, sometimes petiolate; capitula discoid, solitary or in a panicle of up to 30 or more, forming a round-topped cluster; florets tubular, with 5 blue, grey, or white lobes, erect or spreading, giving the flower head a tassel-like appearance. A frost-tender genus grown for its brush-like, fluffy blooms borne over a long period (in commonly grown cultivars often carried throughout summer until first frost) and for the fastness of the wide range of clear colors, although some of those with white flowers fade to a dirty brown unless regularly deadheaded.

401 Ajuga:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Ajuga*.

- (1) Note. The genus *Ajuga* is part of the Labiatae family and may also be referred to as Carpet Bugle. *Ajuga* plants include some 40 species of low growing annual, or perennial evergreen herbs grown for use as an ornamental groundcover for the landscape and bearing whorls of usually blue flowers above the foliage in spring and early summer.

402 Amaryllis or Hippeastrum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Amaryllis* or *Hippeastrum*.

- (1) Note. The genus *Amaryllis* is part of the Amaryllidaceae family. *Amaryllis* plants are bulbous perennial herbs with strap-shaped leaves and broad funnel-shaped single flowers arranged in umbels.

403 Anagallis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Anagallis*.

- (1) Note. The genus *Anagallis* is part of the Primulaceae family and may also be referred to as Pimpernel. *Anagallis* plants are low-growing and creeping glabrous herb plants of open meadows or bogs, used in the garden for edging borders, summer color in rock gardens, and as potted plants for winter or spring color.

404 Angelonia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Angelonia*.

- (1) Note. The genus *Angelonia* is part of the Scrophulariaceae family. *Angelonia* plants have single bilabiate flowers in leaf axils or arranged on terminal racemes.

405 Anthemis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Anthemis*.

- (1) Note. The genus *Anthemis* is part of the Compositae family and may also be referred to as Dog Fennel. Cultivated species are grown for their daisy flowers held on slender stalks above the finely divided foliage.

406 Argyranthemum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Argyranthemum*.

- (1) Note. The genus *Argyranthemum* is part of the Compositae family. *Argyranthemum*

plants have a single daisy composite inflorescence form with ligulate ray florets; disc and ray florets develop acropetally on a capitulum; and inflorescences are held upright and perpendicular to the peduncles.

407 Astilbe:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Astilbe*.

- (1) Note. The genus *Astilbe* is part of the Saxifragaceae family and may be commercially marketed as Spiraea. *Astilbe* plants are characterized as perennial, deciduous herbs, forming dense clumps with rhizomes branching below ground, with small, numerous flowers arranged in broadly pyramidal, branching panicles.

408 Astrantia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Astrantia*.

- (1) Note. The genus *Astrantia* is part of the Umbelliferae family and may also be referred to as Masterwort. *Astrantia* plants occur in alpine meadows and woods and are grown for their starry flowerheads formed by numerous, single, minute, upright, campanulate flowers of the central umbel surrounded by a decorative collar of papery, showy involucre bracts and carried on erect, wiry stems.

409 Bergenia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Bergenia*.

- (1) Note. The genus *Bergenia* is part of the Saxifragaceae family and includes 8 species of perennial rhizomatous herbs occurring in damp, rocky woodland or meadows and valued for bold, evergreen groundcover and early flowers in scape cymes.

410 Bidens:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Bidens*.

- (1) Note. The genus *Bidens* is also commonly known as a member of the Compositae family and includes Tickseed, Beggar's Ticks, Stick-Tight, Bur-Mari-gold, Pitchforks, Spanish Needles, etc. *Bidens* plants are characterized as erect, annual or perennial herbs or shrubs with daisy-type composite inflorescences. They have disc and ray florets developed acropetally on a capitulum and inflorescences displayed above and beyond the foliage on wiry peduncles.

411 Brachycome:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Brachycome*.

- (1) Note. The genus *Brachycome* is commonly known as a member of the Compositae family and may also be referred to as Swan River Daisy. *Brachycome* plants include about 70 species of annual or perennial herbs characterized by daisy-type composite inflorescences with ray and disc florets developed acropetally on a capitulum held above the foliage on erect peduncles.

412 Brunnera:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Brunnera*.

- (1) Note. The genus *Brunnera* is part of the Boraginaceae family and includes 3 species of rhizomatous perennial herbs with erect stems, setose or glandular-pubescent; inflorescence a terminal panicle; bracts absent; corolla purple or blue, small, rotate, lobes ovate-orbicular. *Brunnera macrophylla* is a useful groundcover in the woodland garden, in shaded borders and in waterside plantings, bearing loose sprays of delicate, clear blue flowers in spring, which resemble those of forget-me-nots. The foliage increases in size after flowering, providing weed-smothering cover; the leaf edges assume their characteristic undulations as leaf size increases, giving massed plantings potential for textural contrasts.

413 Calibrachoa:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Calibrachoa* characterized by salverform, trumpet-shaped solitary flowers.

- (1) Note. *Calibrachoa* is part of the genus of plants in the Solanaceae (nightshade) family. *Calibrachoa* plants are weak evergreen perennials with a sprawling habit and have a multitude of small (miniature) petunia-type flowers, but unlike the petunia, *Calibrachoa* plants will not get leggy, turn to wet tissue paper after a hard rain, or melt in the heat and humidity of summer. *Calibrachoa* plants have tiny bell-shaped blooms and cascading form, and the petals are various shades of cherry, red, rose, violet, orange, pink, peach, white, plum, purple, blue, and yellow that produce hundreds of eye-catching flowers in the greenhouse, garden, or containers. Depending on the variety, *Calibrachoa* plants can be trailing or weeping with a height of four to six inches or spreading/upright resulting in a mounded habit that will grow to a height of 10 to 15 inches. This mounded type of *Calibrachoa* plant creates more central growth resulting in blossoms that completely cover the plant; all varieties spread from 20 to 30 inches and are commonly used in locations that take advantage of its trailing/spreading habit and grow well in hanging baskets, patio planters, and window boxes. *Calibrachoa* plants are used for garden beds, either massed or in combination. They bloom well in full sun but will tolerate light afternoon shade in well-drained soil with average moisture; shade reduces flowering.

414 Campanula:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Campanula*.

- (1) Note. The genus *Campanula* is commonly known as a member of the Campanulaceae family and may also be referred to as Bellflower. *Campanula* plants include about 300 species of annual, biennial, or perennial herbs char-

acterized with a campanulate corolla and with inflorescences that are paniculate, racemose, or capitate, or with flowers occasionally solitary.

415 Canna:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Canna*.

- (1) Note. The genus *Canna* is also commonly known as a member of the Cannaceae family and includes about 9 species of rhizomatous perennial herbs characterized as exotic and often with brilliantly colored orchid-like flowers with large oval leaves that spiral up the stem that may be green, bronze, or purple.

416 Cleome:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Cleome*.

- (1) Note. The genus *Cleome* is commonly known as a member of the Capparidaceae family and includes some 150 species of annual or perennial herbs, glabrous to glandular-pubescent; leaves alternate, palmatifid usually exstipulate; leaflets 3 to 7, entire to serrulate; inflorescence a raceme, terminal, or lateral, 1- to many flowered, usually bracteate; sepals free, equal, persistent or deciduous; petals 4, subequal, usually unguiculate. *Cleome spp.* are grown for their long-lasting and unusual spider-shaped flowers, opening from the base of the inflorescence upwards, and carried over long periods from summer into autumn; the petals may curl up on hot sunny days and open fully in the cool of the evening.

417 Coreopsis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Coreopsis*.

- (1) Note. The genus *Coreopsis* is commonly known as a member of the Compositae family and may also be referred to as Tickseed. *Coreopsis* plants bear long stemmed daisy-type inflorescences in profusion over long periods in the summer and are a rich nectar and pollen source for honey bees. *Coreopsis* plants

are particularly valued for their clean bright and rich yellows and are suitable for the sunny herbaceous and cut flower border; blooms often live exceptionally long in water.

418 Cosmos:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Cosmos*.

- (1) Note. The genus *Cosmos* is commonly known as a member of the Compositae family and includes about 26 species of annual, perennial herbs, rarely subshrubs, glabrous or hairy; stems erect or ascending, often furrowed, naked or pubescent; leaves opposite, undivided, lobed or 1-3-pinnatisect, dark green above, often paler beneath, glabrous or hairy, sessile or petiolate; capitula medium to rather large, 1 to many, usually radiate, terminal on long peduncles, in loose corymbs; involucre hemispherical; receptacle flat, scaly; phyllaries in 2 series; ray florets in one series, sterile, entire or subdentate, pink or violet to black-purple or blood-red, more rarely deep orange, yellow or white; disc florets hermaphrodite, fertile, tubular, purple, blood-red or yellow. A frost tender genus, the annual species grown in beds and borders produces long-stemmed flowers for cutting over long periods in the summer and early autumn.

419 Crocosmia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Crocosmia*.

- (1) Note. The genus *Crocosmia* is commonly known as a member of the Iridaceae family and may also be referred to as Montbretia. *Crocosmia* includes some 7 species of deciduous, perennial monocots, to 1.25 cm.; circular, flattened, ringed, ivory corms to 2.5 cm diameter, borne on short slender stolons; linear leaves, acuminate, often slightly recurved, in two ranks, from apex of corm and sheathing vase of flowering stem, erect, glabrous or pubescent, ribbed or plicate; flowers above leaves, semi-opposite along simple or branching spikes, erect or horizontal; perianth yel-

low to vermilion, often with darker markings, to 6 cm, slender, tubular, curving downwards, spreading as lobes, obtuse, to 2 cm across. *Crocasmia* spp. are grown for their brightly colored, funnel-shaped flowers carried on arching, wiry stems and are especially valued for their late summer blooming. They grow in damp habitats.

420 **Cuphea:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Cuphea*.

- (1) Note. The genus *Cuphea* is commonly known as a member of the Lythraceae family and includes 260 species of annual or short-lived perennial herbs or subshrubs, to 2m. *Cuphea* plants are branched or unbranched; viscid or downy stem; opposite or whorled leaves, upper leaves diminishing to inflorescence bracts, ovate to lanceolate, elliptic or linear, entire or slightly toothed; inflorescence a terminal or axillary, leafy raceme or panicle; pedicels with 2 opposite bracteoles; flowers 6-merous, zygomorphic, 1-3 per node; floral tube cylindric, sometimes flared, green, violet, red, bronze, yellow, pink or white, 12-nerved, base gibbous or spurred, lobes 6, lowest often longest, with or without 6 alternating smaller appendages, sometimes with red-purple or yellow hairs; petals absent or to 6, spatulate to obovate, equal or subequal, alternate with lobes, minute, to 12 mm, crumpled, light pink to dark purple, red, yellow or white. *C. ignea* and *C. Xpurplea*, make tolerant, long-flowering bedding plants with small but showy, abundantly produced flowers and neat foliage, often covered in sticky glandular hairs.

421 **Curcuma:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Curcuma*.

- (1) Note. The genus *Curcuma* is also commonly known as a member of the Zingiberaceae family. *Curcuma* plants are short rhizomatous perennials adapted to areas of seasonal drought in the mon-

soonal teak forests of Indomalaysia and coastal brush forests of tropical Australia and grown, otherwise, for their showy, bracted basal inflorescences.

422 **Delosperma:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Delosperma*.

- (1) Note. The genus *Delosperma* is also commonly known as a member of the Aizoaceae family. *Delosperma* plants are mat-forming, compact or laxly branched, erect or with primary branches ascending, prostrate, creeping, herbaceous or shrubby, or with annual shoots from a tuberous or woody caudex. *Delosperma* leaves are succulent, cylindric or semi-cylindric, or flat and variously shaped. Flowers are single or solitary rotate flowers in a lax cyme, typically with one flower per terminal, open during the day and with numerous petals.

423 **Delphinium:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Delphinium*.

- (1) Note. The genus *Delphinium* is commonly known as a member of the Ranunculaceae family and may also be referred to as Larkspur. *Delphinium* plants bear inflorescences of a showy spike or racemes that may sometimes be paniculate and contain few to many flowers on erect and sometimes branching stems. The genus *Delphinium* is unusual in that all three primary colors are represented in different species. The tall hybrids with their long spikes are available in a wide range of colors including purple, mauve, pink, white, and cream as well as varying shades of blue. In Europe, they are grown as perennials but are treated as annuals in California and regions of similar climate.

424 **Dianella:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Dianella*.

- (1) Note. The genus *Dianella* is commonly known as a member of the Liliaceae family and may also be referred to as

Flax Lily. *Dianella* plants include 25-30 species of fibrous-rooted, perennial herbs that grow to 150 cm; stems often becoming erect, to 2m, slender, scarred by leaf sheaths and bearing a terminal fan of leaves; leaves radical or on stems, 2-ranked, grasslike, to 150X3cm, sessile, sheathing, linear-lanceolate to broadly ensiform, venation parallel, margins and keel rough or smooth; inflorescences loosely paniculate, to 60 cm, spreading, sometimes clustered, on drooping pedicels; flowers regular, bisexual, 3-merous, hypogynous; tepals free, 2 whorls of 3, 3-8-nerved, to 2 cm across, deep blue, pale blue, green-white, purple-white, or white. *Dianella* plants are evergreen and rhizomatous usually occurring in nature in subtropical and warm-temperate woodland habitats, *Dianella spp.* are grown for their clumps of attractive grass-like, rough-edged leaves and summer-flowering panicles of small blue flowers, white in *D. intermedia*; *D. tasmanica* begins to flower early in the year so that by summer it will bear persistent, bright blue berries. The fruits of other species are equally spectacular.

425 *Diascia*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Diascia*.

- (1) Note. The genus *Diascia* is also commonly known as a member of the Scrophulariaceae family. *Diascia* plants include 50 species of annual and perennial herbs with solitary zygomorphic flowers arranged on terminal racemes with five modified petals fused at the base and lateral spurs containing dark glands. *Diascia* plants are sun-loving plants grown for their dense spikes of colorful flowers, borne over a long flowering season, sometimes from early summer through first frosts.

426 *Dicentra*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Dicentra*.

- (1) Note. The genus *Dicentra* is commonly known as a member of the Fumariaceae family and may also be referred to as

Bleeding Heart. *Dicentra* plants include 19 species of annual or perennial deciduous herbs from taproots, bulblets, tubers, or rhizomes. They are largely plants of woodland fringe or damp mountain soils, grown for their flowers and lacey, often glaucous, foliage. *Dicentra* flowers are borne in panicles, racemes or corymbs, and are solitary, axillary or leaf-opposed, pendulous, and heart-shaped in outline.

427 *Dimorphotheca*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Dimorphotheca*.

- (1) Note. The genus *Dimorphotheca* is commonly known as a member of the Compositae family and may also be referred to as Sun Marigold. It is a moderately drought-tolerant genus that is valued for the profusion of beautiful daisy flowers carried over mounds of aromatic foliage, sometimes blooming as quickly as nine weeks from sowing, then throughout summer until first frosts. *Dimorphotheca* plants include about 7 species of glabrous to glandular-hairy herbs or shrubs with daisy-type composite inflorescences displayed above the foliage, upright on long peduncles arising from leaf axils with disc and ray florets developed acropetally on a capitulum.

428 *Echinacea*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Echinacea*.

- (1) Note. The genus *Echinacea* is commonly known as a member of the Compositae family and may also be referred to as Cone Flower. *Echinacea* plants include about 9 species of rhizomatous perennial herbs occurring in dry habitats in open woodland and prairies. They are grown in herbaceous and cut flower borders and in native plant collections for their large, late summer daisies with the distinctive and prominent central cone of disc florets. *Echinacea* plants have terminal and axillary composite inflorescences held mostly above and beyond the foliage on strong peduncles with disc and ray florets developed acropetally on a capitulum.

lum and disc florets massed at the center. *Echinacea* plants will withstand heat with high humidity, drought, partial shade, and temperatures as low as – 15 to – 20 C/5 F to 4 F and below.

429 **Epimedium:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Epimedium*.

- (1) Note. The genus *Epimedium* is commonly known as a member of the Berberidaceae family and may also be referred to as Bishop s Hat or Bishop s Mitre. *Epimedium* plants include around 25 species of herbaceous, rhizomatous perennials with irregularly branching rhizome, creeping, covered in thin, brown bracts; 2-ternately divided leaves, rarely simple or more divided; stipules forming a sheath around the base of the petiole; petiole round in section; leaflets cordate at base, pointed at tip, margin spiny, sometimes entire; flowering stem naked to 6-leaved; inflorescence few- to many-flowered; pedicel subtended by a bract; flowers glabrous, white and red, yellow or violet; sepals 8, in 2 sets of 4, the outer set 5 mm, early deciduous, the inner set petaloid, spreading; petals 4, nectariferous and short. The rather slow-growing *Epimedium* plants provide excellent groundcover and are from the moist woodlands of the northern hemisphere. The heart-shaped leaves are particularly attractive; in some cultivars, both the new spring and the autumnal leaves are tinged russet-bronze, and the flowers, the shape of a bishop s mitre, float daintily on wiry stems above the leaves. In late winter, deciduous *Epimedium spp.* must be clipped clean of the previous season s growth to ensure that the flowers can be seen.

430 **Felicia:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Felicia*.

- (1) Note. The genus *Felicia* is commonly known as a member of the Compositae family and may also be referred to as Blue Marguerite, Blue Daisy, or Kingfisher Daisies. *Felicia* plants include about

83 species of annual to perennial herbs, dwarf subshrubs, and shrubs. The genus *Felicia* is a frost-tender genus, does not thrive in hot humid conditions, and is prone to rot if cold and damp. *Felicia* plants have disc and ray florets of capitate radiate that are often solitary.

431 **Gaillardia:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Gaillardia*.

- (1) Note. The genus *Gaillardia* is also commonly known as a member of the Compositae family and may also be referred to as Blanket Flower. *Gaillardia* plants include about 30 species of annual, biennial, and perennial herbs which grow to about 90 cm.; leaves alternate or often radical, entire, toothed, or pinnatifid, base petiolate or sessile, more or less clasping, pubescent; capitula radiate, solitary; receptacle convex to subglobose; ray florets yellow to red, tipped with yellow or red-purple, sterile; disc florets tubular to campanulate, purple. *Gaillardia* plants are valued for their mid-summer flowers in a range of predominantly hot vibrant colors, from golden yellows and warm copper to rich burgundy; *Gaillardia spp.* are so prolific and long-blooming that they often exhaust themselves and may be short-lived as perennials. Most are excellent for cutting, especially if given the support of a grow-through mesh to ensure long straight stems.

432 **Gaura:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Gaura*.

- (1) Note. The genus *Gaura* is also commonly known as a member of the Onagraceae family with 21 species of annual, biennial or perennial herbs. *Gaura* flowers are solitary, slightly zygomorphic flowers that are arranged on elongated terminal and axillary panicles in leafless spikes. It is a fine, graceful plant for herbaceous borders, the wild garden or collections of native plants; valuable for the late-blooming, soft racemes of white, pale pink, or scarlet

flowers produced continuously over a long period.

grown in a medium-fertility, soil-based mix.

433 Gentiana:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Gentiana*.

- (1) Note. The genus *Gentiana* is also commonly known as a member of the Gentianaceae family and includes about 400 species of annual, biennial, or perennial, erect, prostrate, decumbent or climbing herbs. *Gentiana* flowers are solitary or in elongate to capitate, cymes, axillary or terminal, erect or inclined, rarely nodding; corolla rotate, campanulate, tubular, funnel-shaped, salverform or clavate, 4-7 lobed, with interstitial webs or appendages (plicae), tube sometimes pleated, often striped outside and spotted within. *Gentiana* plants are widespread across cool temperate and alpine zones of the world, and most will thrive only in regions with cool summers. These plants are found in a wide range of habitats and soil types and exhibit a corresponding diversity of habit, size, and cultural requirements, so lending themselves to a number of situations in the garden. Their colors range from the deep and intense blues to which the genus has given its name to colors which include yellow, white, scarlet, and gold.

434 Globba:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Globba*.

- (1) Note. The genus *Globba* is also commonly known as a member of the Zingiberaceae family and includes some 70 species of perennial herbs with slender fleshy rhizomes, fibrous roots, and reed-like leafy stems. The inflorescence of *Globba* is a pendulous terminal raceme, with showy bracts; flowers borne in cincinni on slender branchlets arising from axils of bracts and the lower flowers are often replaced with bulbils. *Globba* plants are slender, rhizomatous perennials from the shady forests of monsoonal areas in southeast Asia and northeast India; they are useful as groundcover under tropical shrubs and are easily

435 Helenium:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Helenium*.

- (1) Note. The genus *Helenium* is a part of the Compositae family and may also be referred to as Sneezeweed and is said to be named for Helen of Troy. *Helenium* plants include about 40 species of annual, biennial, or perennial herbs. The inflorescences of *Helenium* are radiate or discoid capitula that may be solitary or in a corymb held above the foliage in strong erect peduncles. Disc and ray florets develop acropetally on a capitulum. *Helenium* plants are grown for the warm color range of their flowers with their prominent dark centers. *Helenium* is used for cutting and for the herbaceous border and offers large number of cultivars that are particularly valuable for the autumn border.

436 Helianthus:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Helianthus*.

- (1) Note. The genus *Helianthus* is a part of the Compositae family and includes about 70 species of showy annual to perennial herbs, often with fibrous or tuberous roots and rhizomes. The inflorescences of *Helianthus* are daisy-type borne on terminals above the foliage with disc and ray florets developing acropetally on a capitulum. *Helianthus spp.* are valued for their brilliant late summer flowers, which in many species last well when cut; most provide a useful nectar source for bees, and the larger-flowered cultivars of the sunflower are particularly valuable when the seeds ripen and attract finches and other seed-eating birds into the garden. The seed is of great economic importance as a source of vegetable oil, a masticatory, and a fodder crop.

437 Heliopsis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Heliopsis*.

- (1) Note. The genus *Heliopsis* is a part of the Compositae family and includes about 13 species of branched, erect, perennial herbs and may also be referred to as Ox-eye. The inflorescences of *Heliopsis* are showy radiate capitula, with a single capitulum per terminal, comprising disc and ray florets. *Heliopsis* is noted for its ease of cultivation, extreme cold-hardiness, longevity, robust vigor, and the strong warm colors of the large daisy flowers from mid to late summer and autumn; the flowers also last reasonably well when cut.

438 **Heliotrope:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Heliotrope*.

- (1) Note. The genus *Heliotrope* is a part of the Boraginaceae family and may also be referred to as Heliotropium or Turnsole. *Heliotrope* plants include about 250 species of annual or perennial herbs, shrubs or undershrubs, usually villous. The inflorescences of *Heliotrope* are solitary, geminate, or ternate in scorpioid spikes or racemes with flowers of white, blue, purple, or sometimes yellow, and corolla form as tubular, cylindrical, or unfundibular. *Heliotropium spp.* generally occur in dry, open habitats, especially on sandy soils and may be container grown where the delightful fragrance may be appreciated.

439 **Helleborus:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Helleborus*.

- (1) Note. The genus *Helleborus* is part of the Ranunculaceae family and may also be referred to as Hellebore. *Helleborus* plants include 15 species of rhizomatous herbs. *Helleborus* rhizomes are usually stout, branching, with thick brown or black roots, or sometimes with erect or procumbent aerial stems; stems are herbaceous or persistent; herbaceous stems arising from rhizomes are surrounded by 2-3 sheaths and are leafless although bracts may resemble leaves; leaves are mostly basal arising from rhizomes,

caulescent species borne on stems and falling to expose basal portion of stems, usually pedate, sometimes palmate, with 3 or more segments, often coriaceous, venation prominent below, sometimes pubescent, margins coarsely dentate or spiny-toothed, rarely entire; flowers rarely solitary, usually a few in loose cymes, sometimes many in a paniculate cyme, subtended by leaflike bracts, usually pendent or horizontal, flat to campanulate, actinomorphic, hermaphrodite, parts inserted spirally; outer whorl of 5 perianth segments, overlapping white or green to purple, persistent, becoming green after anthesis; inner whorl of to 32 tubular to funnel-shaped nectarines, green or deep purple, yellow, pink or almost black, caducous. *Helleborus spp.* and hybrids are long-lasting and are striking late winter to early spring flowering plants in an infinite variety of earthy whites, greens, yellows and deep purples, often with flushing and speckling in contrasting hues. The strong, sculptured, evergreen foliage adds an architectural element in borders too small for shrubs.

440 **Heuchera:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Heuchera*.

- (1) Note. The genus *Heuchera* is a part of the Saxifragaceae family and may also be referred to as Alum Root or Coral Bells. *Heuchera* plants include some 55 species of herbaceous, evergreen, perennial herbs which grow to 70 cm. with woody, often branching rootstock; leaves usually basal, tuft-forming, rounded, cordate, dentate, broadly 5-9-lobed, mottled when young; petiole slender; inflorescence a slender, scapose raceme or panicle; flowers small; sepals fused at base in a bell, saucer-shaped, 5-lobed above; petals 5 or absent, often shorter than sepals. *Heuchera* is used as evergreen groundcover in the woodland garden or damp, sunny, border edges, valued for its foliage interest (many have marbled leaves) and graceful flowering spikes in subtle shades of coral pink and green. *H. Purple Palace* is one of the

most striking small herbaceous perennials; its dark foliage and delicate white flowers commend it as a contrast plant for mixed borders, preferably on slightly damp soils.

441 XHeucherella:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *XHeucherella*.

- (1) Note. The genus *XHeucherella* is a part of the Saxifragaceae family of perennial herbs and grows to 45 cm. with leaves to 13 cm., orbicular, stalked, shallowly lobed, hispid throughout, light green, mottled brown when young, becoming dark green with age, bronze in autumn; flowering stem to 40 cm; panicles loose, slender; flowers small, pink; calyx fused into a pink cup; petals 4mm., just exceeding sepals in length. *XHeucherella* plants are clump-forming hybrids with a neat, ground-covering habit and good autumn color.

442 Hypericum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Hypericum*.

- (1) Note. The genus *Hypericum* is a part of the Guttiferae family and includes over 400 species of small trees, shrubs, or herbs, evergreen or deciduous, with pale (pellucid or amber) and often dark (black or occasionally red) glands (and/or canals), glabrous or sometimes with simple hairs on stems, leaves and/or sepals. *Hypericum* leaves are paired or sometimes 3-4-whorled, sessile or shortly stalked; flowers are bisexual, solitary and terminal or in terminal and sometimes axillary dichasial to monochasial cymes, sometimes in a dichasium replaced by flowering pseudo-dichotomous branches. Sometimes, *Hypericum* may be commercially used as cut stems with fruits.

443 Kniphofia or Tritoma:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Kniphofia* or *Tritoma*.

- (1) Note. The genus *Kniphofia*, named after a German botanist, J.H. Kniphof, is a part of the Lilaceae or Aloiaceae family and includes about 68 species of perennial herbs with short thick rhizomes forming large clumps or having a few crowns from which arise clusters of linear to grasslike leaves, often fleshy, sometimes strap-like, sometimes keeled, rarely caulescent. *Kniphofia* scapes are erect, slender, usually exceeding leaves, bearing in the apical quarter a dense or lax spike-like raceme with tubular-cylindric to funnel-shaped flowers. *Kniphofia* plants are summer and autumn flowering, generally sturdy perennials for the sunny border, valued for their strong form and stout spikes of often brilliantly colored flowers which last well when cut.

444 Lamium:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Lamium*.

- (1) Note. The genus *Lamium* is part of the Labiatae family and may also be referred to as Dead Nettle. *Lamium* plants include some 50 species of perennial or annual herbs; with stems often stoloniferous and creeping at base, glabrous to pubescent; leaves petiolate, opposite, ovate to kidney-shaped, base usually cordate, rugose; flowers in to 12-flowered verticillasters; corolla 2-lipped, upper lip hooded, arched, ovate to oblong, lower lip spreading, 3-lobed, cordate to obovate, lateral lobes reduced, occasionally appendaged, middle lobe short-petiolate, obovate. *Lamium* plants are useful ground-covering plants, particularly the silver-leaved forms of *L. maculatum* (the silver coloration is due to air-filled blisters below the leaf surface) and *L. galeobdolon* are several of the most commonly encountered groundcover plants in cool temperate gardens.

445 Lavandula:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Lavandula*.

- (1) Note. The genus *Lavandula* is part of the Labiatae family and may also be referred to as Lavender, which has long been used as a fragrant wash. *Lavandula* plants include 28 species of aromatic shrubs and subshrubby perennials with branched stems that are erect or spreading; leaves linear-oblong, simple and entire or dentate to pinnate or bipinnate margins usually revolute; inflorescence a terminal, long-stalked, verticillate spike, simple or branched at base; bracts differing distinctly from leaves; corolla 2-lipped, usually purple or blue, sometimes white or pink, upper lip 2-lobed, lower lip 3-lobed, lobes equal. *Lavandula* plants are aromatic shrubs grown for their ornamentation and perfume. Oil of lavender has been extracted from several species for its scent and antiseptic properties. Several species because of their high nectar content are grown as bee plants. All lavenders are found in exposed, usually parched, hot, rocky situations. Although often found on calcareous soils, lavenders are not affected by different soil types but prefer well-drained positions to damp waterlogged ones during winter. English Lavender plants do not live very long and become unshapely in fewer than 10 years. They may be trimmed back after 3-4 years to prolong their shape, but in time will need to be replaced by young plants.

446 Leschenaultia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Leschenaultia*.

- (1) Note. The genus *Leschenaultia* is a part of the Goodeniaceae family and includes some 24 species of glabrous herbs, subshrubs, or shrubs with heath-like habit. *Leschenaultia* leaves are usually linear, entire, and sessile; flowers are solitary and terminal or several in terminal, leafy corymbs.

447 Leucocoryne:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Leucocoryne*.

- (1) Note. The genus *Leucocoryne* is a part of the Liliaceae (Alliaceae) family and includes about 12 species of herbaceous perennials which grow to 50 X 10 cm, many with the characteristic smell of garlic; bulbs to 2 cm wide, with dark brown tunics; 2-5 leaves to 35cm to 5 mm, basal, linear often channeled, senescent before flowering; 2-12 flowers, funnel-shaped, in umbels with 2 spathes; 6 perianth segments, similar, white, blue or violet, lower parts fused to basal tube, upper parts free, spreading. *Leucocoryne* plants are grown for their loose heads of scented, soft blue flowers carried over long periods in spring and early summer, *Leucocoryne spp.* start growing early in the year; the grass-like foliage dies down at or slightly before flowering, and bulbs enter dormancy during summer and autumn. *Leucocoryne* plants are suitable for outdoor cultivation only in areas that are essentially frost-free, and they require a position in the full sun and in well-drained soil.

448 Ligularia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Ligularia*.

- (1) Note. The genus *Ligularia* is a part of the Compositae family and may also be referred to as Leopard Plant or as "a little tongue" referring to the tongue-shaped ray florets. *Ligularia* plants include about 180 species of perennial herbs with radical, broad, ovate-oblong to reniform, usually cordate basal leaves and long, broadly sheathed stems. *Ligularia* plants are grown for their flowers and foliage and are grown as specimens by lakes and stream sides or in massed plantings in the dappled shade of woodland gardens. These plants demand deep, moist, fertile and humus-rich soils and benefit from a mulch of organic matter; on bright windy days, they may wilt very quickly, even where soil moisture may appear adequate.

449 Limonium:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Limonium*.

- (1) Note. The genus *Limonium* is a part of the Plumbaginaceae family and may also be referred to as Sea Lavender, Marsh Rosemary, or Statice. *Limonium* plants include about 150 species of perennial herbs or shrubs, or rarely annuals with inflorescences in a corymbose panicle of terminal spikelets on a scaly, bracteate stem; spikelets subtended by 3 floral bracts. The flowers of most species of *Limonium* can be air-dried for winter decorations; they range in form and color from the most subtle and delicate sprays on fine sinuous stems to the more extravagant and densely flowered panicles, frequently seen as florist's flowers and particularly valued for the strong bright colors they retain when dried, provided the flowers are kept away from the bright light.

450 Liriope:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Liriope*.

- (1) Note. The genus *Liriope* is part of the Liliaceae (Convallariaceae) family and may also be referred to as Lily Turf. *Liriope* plants include some 5 species of perennial, evergreen, stemless, tufted, or occasionally rhizomatous herbs, which grow to 45 cm. with grass-like leaves; flowers white to dark mauve, grape-like, clustered in a scapose, elongated spike or raceme; tepals 6, free. The most frequently seen species in cultivation, *L. muscari* is valued as a fairly drought-tolerant evergreen groundcover bearing its densely flowered spikes of lavender blue in late autumn.

451 Lobelia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Lobelia*.

- (1) Note. The genus *Lobelia* is a part of the Campanulaceae family and includes some 365 species of annual or perennial herbs, shrubs, and treelets, often with a milky, acrid sap. *Lobelia* flowers are in racemes or are solitary, sometimes with bracteolate and a bilabiate corolla, slit to the base on the upper side, with the

lower 3 lobes large and spreading and the upper 2 lobes small and recurved. They are valued for their (typically) rich, deep blue flowers, though modern selections have extended the color range to include pure white, carmine pink, and pale lilacs.

452 Lychnis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Lychnis*.

- (1) Note. The genus *Lychnis* is part of the Caryophyllaceae family and may also be referred to as Catchfly. *Lychnis* plants include about 20 species of mostly perennial herbs, differing from *Silene* only in the combination of 5 styles and a capsule opening with 5 teeth (most *Silene* species have 3 styles and a capsule opening with 6 teeth). *Lychnis* spp. range through northern temperature regions in diverse habitats, from fenland, damp meadows and moist woodlands, to rocky or alpine meadow habitats.

453 Lysimachia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Lysimachia*.

- (1) Note. The genus *Lysimachia* is a part of the Primulaceae family and may also be referred to as Loosestrife. *Lysimachia* plants include about 150 species of erect or procumbent herbs, rarely dwarf shrubs. *Lysimachia* plants are a cosmopolitan genus, found in damp grassland or swampy terrain and are easily grown in moist borders in sun and part shade or at the waterside and in bog gardens. *Lysimachia* plants that are commonly cultivated are perennials and are inclined to be invasive.

454 Mimulus:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Mimulus*.

- (1) Note. The genus *Mimulus* is part of the Scrophulariaceae family and may also be referred to as Monkey Flower or Musk. Its Latin name *mimus*, a mimic actor, refers to a fanciful resemblance of the markings of the corolla to a grinning

face; or from *mimo*, referring to gaping mouth of corolla. *Mimulus* plants include about 150 species of annual or perennial herbs, of erect or diffuse habit, or rarely shrubs. The flowers of *Mimulus* are axillary or on spike-like racemes.

455 **Monarda:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Monarda*.

- (1) Note. The genus *Monarda* is part of the Labiatae family and may also be referred to as Wild Bergamot, Horsemint, or Bee-balm and includes about 16 species of aromatic annual or perennial herbs. *Monarda* flowers are borne in dense glomerules, terminal and solitary or in an interrupted spike, subtended by an involucre or usually foliar bracts. *M. didyma* has long been cultivated for oil of bergamot extracted from young leaves, for dried leaves in potpourri, and for the high nectar yield useful for bees. The annual species are usually grown for their sweet scent and for nectar production for bees. The perennial species, particularly the many showy forms of *M. didyma*, make first-rate clump-forming plants for the herbaceous border.

456 **Myosotis:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Myosotis*.

- (1) Note. The genus *Myosotis* is part of the Boraginaceae family and may also be referred to as Forget-me-not or Scorpion grass and includes some 50 species of annual, biennial, or perennial pubescent herbs. *Myosotis* leaves are alternate; flowers usually in paired cymes, mostly white, blue, or purple usually with a conspicuous white or yellow eye; bracts usually absent; 5-lobed calyx, often accrescent in fruit; corolla rotate or salverform, 5 lobes, obtuse, spreading, faucal scales 5, distinct, usually included, papillose. *M. sylvatica* and *M. alpestris* occur in damp woodlands and meadows, the latter on basic rock formations. Their many cultivars are grown as hardy annuals or biennials (tolerating winter temperatures of at least – 15 C/ 5 F).

Traditionally used in spring bedding and as border edging, they are also suited to window boxes and to pot cultivation in the cold glasshouse for winter and early spring blooms.

457 **Narcissus:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Narcissus*.

- (1) Note. The genus *Narcissus* is part of the Amaryllidaceae family, may also be referred to as Daffodil, and includes about 50 species of perennial bulbous herbs. Its flowers are yellow or white, sometimes fragrant, erect to drooping, solitary or in an umbel of 2-20, subtended by a one-valved, usually scarious membranous spathe, borne on a leafless scape; perianth tubular at the base, with 6 segments, almost always with a conspicuous corona in the form of a trumpet or a smaller ring or cup, often a different color from the segments. Narcissi (which include all daffodils) are among the most popular garden plants, can be grown in beds and borders, rock gardens, in grass and woodlands, and in pots. They are also excellent as cut flowers. Their flowering period extends from late autumn to early summer though the main flowering period is in spring.

458 **Nemesia:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Nemesia*.

- (1) Note. The genus *Nemesia* is part of the Scrophulariaceae family and includes some 65 species of annual or perennial herbs or subshrubs. *Nemesia* flowers are axillary or in short terminal racemes; bilabiate corolla with very short tube, produced into spur or pouch at front, upper lip 4-lobed, lower entire or bilabiate, with palate almost closing throat. *Nemesia* plants are commonly used as frost-tender annuals for summer bedding, mixed borders, and pot-plant display in cool glasshouses.

459 Nierembergia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Nierembergia*.

- (1) Note. The genus *Nierembergia* is a part of the Solanaceae family and may also be referred to as Cupflower and includes some 23 species of annual or perennial herbs or subshrubs. *Nierembergia* flowers are solitary, terminal, or in cymes; calyx is tubular to campanulate, 5-lobed, with lobes spreading; corolla is tubular, limb spreading and 5-lobed. *Nierembergia* spp. are slender-stemmed, graceful plants, generally found growing wild in moist but sunny situations in the temperate regions of South America. The upturned, bell-like, salverform flowers last from summer until well into the autumn and, in creeping species, nestle against a backdrop of spreading, dark green foliage.

460 Oenothera:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Oenothera*.

- (1) Note. The genus *Oenothera* is part of the Onagraceae family and may also be referred to as Sundrops or Suncups or Evening Primrose and includes 124 species of annual, biennial, or perennial herbs. *Oenothera* plants have erect, ascending stems that are rarely decumbent and sometimes rooting at nodes, with taproot or fibrous roots, rarely rhizomatous; leaves sometimes in basal rosette, otherwise alternate, sessile or petiolate, entire and dentate or pinnatifid; stipules absent; flowers usually large and showy, solitary in leaf axils or gathered into corymbose, racemose or spicate inflorescences, actinomorphic, 4-merous, opening at dawn or dusk, soon fading; floral tube cylindrical, apex flared, deciduous; petals white, yellow, or purple, rarely red or with a red spot, becoming orange and purple, obovate or obcordate. Cultivated ornamentals include the evening primroses, which are generally evening-flowering, and the sundrops or suncups, which are day-

flowering. Some of the evening primroses are day-flowering, but some bear fragile and often scented blooms at night, which wither and die in the morning sun. Cultivated types are generally tap-rooted plants of stony and well-drained soils or mountainous country, preferring a dryish, sunny site in the garden.

461 Omphalodes:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Omphalodes*.

- (1) Note. The genus *Omphalodes* is a part of the Boraginaceae family and may also be referred to as Navelwort or Navelseed and includes some 28 species of annual, biennial, or perennial herbs, glabrous or minutely pubescent. *Omphalodes* flowers are usually in terminal cymes, sometimes solitary and axillary, white or blue, sometimes bracteate; calyx 5-parted, accrescent in fruit; corolla 5-lobed, subrotate or subcampanulate, tube short, throat with 5 saccate invaginations forming an eye, frequently paler than the rest of the corolla. Most *Omphalodes* species are suitable for cool positions in the rock garden or for naturalizing in light, open woodland with treatment.

462 Ornithogalum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Ornithogalum*.

- (1) Note. The genus *Ornithogalum* is a part of the Lilaceae family and includes some 80 species of bulbous perennial herbs. *Ornithogalum* inflorescence is a scapose raceme or corymb, pyramidal, to subcylindric, 2- to many flowered; bracts usually conspicuous; tepals 6, equal or unequal in 2 distinct whorls, white, rarely yellow, orange or red, outside usually marked with a green stripe, usually widely spreading, rarely erect. *Ornithogalum* leaves are in a rosette, linear to lanceolate or obovate, sometimes with a silver-white median stripe above and margins smooth or hairy. *Ornithogalum* has two main centers of distribution, in South Africa and around the Mediterra-

nean, but includes a number of more northerly European natives which are robust and cold-hardy in cultivation, some of which may become invasive where conditions suit.

463 **Oxalis:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Oxalis*.

- (1) Note. The genus *Oxalis* is a part of the Oxalidaceae family and may also be referred to as Sorrel or Shamrock and includes about 800 species of annual or perennial, stemmed or stemless herbs and shrubs, often with tuberous or bulbous underground parts; very rarely aquatic plants; leaves radical or cauline, palmate; leaflets usually 3, sometimes more or phyllodic, often folding down at night; stipules adnate to petiole bases or absent; flowers with a tristylic, heteromorphic arrangement of parts on axillary peduncles; often in cymes or contractions of this to umbellate, 1- to many-flowered; bracteoles in pairs subtending pedicels and cyme branches, many and crowded in umbellate inflorescences; pedicels articulate below calyx and/or their base; petals usually partly fused at base, white, pink, red, or yellow. Although a number of species are potential weeds that spread by means of seed and underground bulbils and may prove difficult to eradicate, *Oxalis* includes a number of beautiful ornamentals for a diversity of situations in the garden. Most species are low and spreading; the flowers and sometimes the leaves close up at night or in shade.

464 **Papaver:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Papaver*.

- (1) Note. The genus *Papaver* is a part of the Papaveraceae family and may also be referred to as Poppy and includes some 50 species of annual or perennial, glaucous, rarely glabrous, herbs which grow to 120 cm. *Papaver* leaves are basal or cauline, pinnatifid to pinnatisect, toothed, serrate or, rarely, crenate, occasionally bristly, segments often pinnate

or bipinnate, irregularly incised. *Papaver* flowers are solitary with 2, rarely 3 sepals, concave, overlapping, short-lived; 4 petals, rarely 5 or 6, usually obovate, obtuse, creased in bud and often withering and falling early. Poppies are easily grown in the mixed border, herbaceous border, and in rock gardens.

465 **Penstemon:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Penstemon*.

- (1) Note. The genus *Penstemon* is a part of the Scrophulariaceae family and includes some 250 species of subshrubs or perennial herbs, some grown as annuals. *Penstemon* inflorescences are a racemose, cymose, or a thyrsoïd showy panicle; calyx is 5-lobed, corolla tubular, almost regular to strongly bilabiate, upper lip 2-lobed, lower 3 cleft. The warm colors of *Penstemon spp.* and cultivars make a valuable contribution to the late summer and autumn flower garden. Diversity of natural habitat gives a variety of tolerance to differing garden sites. The majority of commonly cultivated species are found in dryish, sunny sites or in sub-alpine woodlands, meadows, and plains on light, often impoverished soils.

466 **Pentas:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Pentas*.

- (1) Note. The genus *Pentas* is a part of the Rubiaceae family and includes some 30 or 40 species of perennial, or rarely biennial, herbs or shrubs. *Pentas* flowers are bisexual, 1-3 morphous, crowded in terminal, much-branched cymes or flat-topped corymbs; corolla is tubular to cylindric, tube often funnel-shaped and swollen above and pubescent at throat, lobes 5, unequal, valvate in bud, ovate to oblong. *Pentas* plants are woody-based herbs or shrubs with cymes or domed cymes of crowded flowers in a range of shades of red, pink, or mauve and are grown in the glasshouse or for summer

use outdoors in tubs and bedding schemes.

467 Persicaria:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Persicaria*.

- (1) Note. The genus *Persicaria*, also *Polygonum*, is part of the Polygonaceae family and may also be referred to as Knotweed, Smartweed, Fleece Vine, or Silver Lace Vine. *Persicaria* includes some 150 species of mostly annual or perennial herbs, occasionally aquatic or scramblers, woody subshrubs, with stems appearing jointed. *Persicaria* flowers are small, sometimes showy, fertile, clustered in axils of leaves or bracts, or in terminal panicles or spikes; perianth funnel- or bell-shaped, segments 3-6, commonly 5, usually equal, petal-like, white, pink, or red. A diverse genus with species suited to a number of situations in the garden. Although most have invasive potential which must be taken account of when sitting, this tendency can often be used to advantage in larger landscape plantings.

468 Phygelius:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Phygelius*.

- (1) Note. The genus *Phygelius* is part of the Scrophulariaceae family and includes a genus of 2 species and many hybrids; evergreens or semi-evergreen shrubs and subshrubs which grow to 1-1.5m. *Phygelius* plants have woody stems at their base, soft above; shoots erect, glabrous, angular. Inflorescences are often one-sided; flowers pendulous; corolla tubular, pink to orange-red, narrowing towards base, 5-lobed, margins sharply recurved. Spring growth is rapid and plants will give useful front to mid-border height, proving remarkably drought-tolerant and freely producing their warmly colored panicles of fuchsia-like flowers from summer until late in the season.

469 Plectranthus:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Plectranthus*.

- (1) Note. The genus *Plectranthus* is part of the Labiatae family and includes some 350 species of annuals, perennial herbs, or shrubs. *Plectranthus* plants have herbaceous, semi-succulent, or succulent stems and leaves; paniculate, racemose, or spicate inflorescence, usually terminal, flowers in verticils, occasionally solitary more often cymes; corolla tube variously gibbous, bilabiate, upper lip usually 4-lobed, lower longer than upper. This large genus provides many attractive ornamental flowering plants for conservatory or bedding outside in summer.

470 Polemonium:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Polemonium*.

- (1) Note. The genus *Polemonium* is part of the Polemoniaceae family and may also be referred to as Jacob s Ladder or Sky Pilot. *Polemonium* includes some 25 species of erect, decumbent, or spreading annuals or more commonly rhizomatous and caespitous perennials that are often foul-smelling. Leaves are usually alternate, pinnate, compound or very deeply pinnatifid, leaflets entire or divided; inflorescence a lax or dense, axillary or terminal cyme; flowers sometimes solitary; corolla narrowly funnel-form to rotate-campanulate, usually blue or white, rarely purple, yellow or pink, lobes rounded to spatulate. *P. caeruleum* is native to damp grassland and rocky habitats, frequently on limestone soils.

471 Portulaca:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Portulaca*.

- (1) Note. The genus *Portulaca* is part of the Portulacaceae family and may also be referred to as Purslane or Moss Rose. *Portulaca* includes some 40 species of fleshy or trailing mostly annual herbs. Leaves are alternate or nearly opposite,

flat or sometimes cylindrical, often with tufts of bristles in the axils, the upper forming a leafy involucre subtending the often showy and variously colored flowers. Flowers are purple, yellow, or pink with 4-6 petals which open in direct sunshine and close in shadow. *P. grandiflora* is grown for its fleshy, moss-like foliage and for the profusion of individually short-lived, brightly colored flowers carried over long periods in summer. Portulaca plants are ideally suited as low-growing, seasonal filler in flower beds and borders, as edging, for window boxes and other containers and are easily grown from seed sown in situ in spring, in any low-nutrient, freely draining, sandy soil in full sun.

472 **Primula:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Primula*.

- (1) Note. The genus *Primula* is part of the Primulaceae family and includes some 400 species of perennial, mostly alpine herbs with short rhizomes and leaves in basal rosettes, radical, simple, entire, toothed or lobes; many species with farina, a wax secreted from glands on surfaces of the leaves. *Primula* plants have peduncles that are often conspicuous, sometimes reduced and hidden in rosettes, the flower stalk being an elongated pedicel; inflorescences terminal, verticillate or umbellate with involucral bracts, or a simple raceme, green parts often farinose; flowers 5-merous, often fragrant, and corolla tube usually exceeding calyx. The genus *Primula* is one of the largest and most important plants in cultivation in temperate gardens, ranging from the most amenable and undemanding of plants to those which present an irresistible challenge to the most skilled of growers.

473 **Pulmonaria:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Pulmonaria*.

- (1) Note. The genus *Pulmonaria* is part of the Boraginaceae family and may also be referred to as Lungwort. *Pulmonaria*

plants include some 14 species of perennial, pubescent herbs with creeping rhizomes, simple stems, leaves that are simple, green, sometimes spotted white, inflorescence of terminal, forked cymes, bracteate; flowers white, pink, blue, or purple; corolla 5-lobed, infundibular, throat with 5 tufts of hairs. *Pulmonaria* spp. occur in shaded sites on deep soils rich in organic matter; *P. officinalis* is generally found over limestone.

474 **Rudbeckia:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Rudbeckia*.

- (1) Note. The genus *Rudbeckia* is part of the Compositae family and may also be referred to as Coneflower. *Rudbeckia* plants include some 15 species of usually perennial, rarely annual or biennial, herbs with simple or branched stems and alternate, entire to 2-pinnatifid leaves; few capitula that are usually solitary, radiate; phyllaries in few to many series; receptacle naked or scaly, hemispheric to conic; ray florets sterile, mostly yellow or orange; disc florets tubular, hermaphrodite. *Rudbeckia* plants are grown for their large, usually yellow daisies with the prominent central cone and often reflexed ray florets which give a characteristic shuttlecock outline to the flower; *Rudbeckia* plants include many useful species used for cutting and as summer borders; *Rudbeckia* performs particularly well during long hot late summers. The species are particularly useful for native plant collections and for naturalizing; the many cultivars, even where truly perennial, will flower in their first year from early sowings and are often treated as annuals. *Rudbeckia* plants grow in any moderately fertile and retentive garden soil in sun or part day shade.

475 **Salvia:**

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Salvia*.

- (1) Note. The genus *Salvia* is part of the Labiatae family and may also be referred to as Sage. *Salvia* plants include some 900 or more species of perennial or,

occasionally, annual or biennial herbs, shrubs or subshrubs with erect or ascending, glabrous to glandular and/or variously pubescent stems; leaves sessile or petiolate, simple, or lyrate or pinnatisect; flowers in 2-40 flowered, approximate or distant verticillasters, these disposed in terminal or axillary racemes, spikes, panicles, or rarely, cymes; corolla 2-lipped, upper lip hooded, erect, plane or falcate, entire to emarginated or bifid, lower lip spreading, 3-lobed, lateral lobes reduced, middle lobe often emarginated. Of the 900 or so species of *Salvia* plants, a large percentage are among the most ornamental flowering plants, providing a long-lasting display as shrubs, herbaceous perennials, biennials, and annuals. Several species have deliciously aromatic foliage, and some are used in widespread cultivation for medicinal uses and as culinary herbs.

476 Sanvitalia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Sanvitalia*.

- (1) Note. The genus *Sanvitalia* is part of the Compositae family and includes about 7 species of annual to perennial herbs with opposite, simple, entire leaves; radiate capitula; receptacle hemispheric to narrowly conic, scaly; phyllaries in 2-3 series, imbricate, dry or partly herbaceous; ray florets female, fertile, persistent on fruit, white or yellow; disc florets purple or white with a green tinge. The *Sanvitalia* plant is an undemanding, creeping annual for border edges, windowboxes, and hanging baskets. *Sanvitalia* plants grow in sun in an open position in well-drained, moderately fertile soil.

477 Sarracenia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Sarracenia*.

- (1) Note. The genus *Sarracenia* is part of the Sarraceniaceae family and may also be referred to as Pitcher Plant. *Sarracenia* plants include some 8 species of carnivorous herbaceous perennials with horizontal, stout rhizomes with apical cluster

of leaves; leaves of annual duration, usually pitcher-form, but sometimes not forming pitchers, especially over winter; pitchers 15-100 cm, erect to decumbent, elongate ("trumpet-shaped") or squat, with broad lateral wing and terminal lid or laminal flap, apex sometimes hooded and inflated, with entrance to pitcher somewhat concealed, but usually lamina erect, not covering mouth of pitcher, mouth often with distinct thickened margin, pitchers usually green or yellow-green, often variously marked red or brown especially on veins, sometimes with many translucent white spots toward apex; coloring often variable, sometimes related to light intensity; inflorescences usually much exceeding pitchers; scape unbranched, naked, glaucous; flower pendulous, opening before young pitchers mature in spring, thereby preventing undesirable capture of pollinating insects; 5 petals, ovate to oblong, large, yellow to red.

478 Scabiosa or Scabiosa:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Scabiosa* or *Scabiosa*.

- (1) Note. The genus *Scabiosa* or *Scabiosa* is part of the Dipsacaceae family and may also be referred to as Pincushion Flower or Scabious. *Scabiosa* plants include some 60-80 species of annual or perennial herbs, or rarely subshrubs; leaves opposite, entire to toothed, lobed or much divided, often in basal rosettes; flowers blue, rose, purple, yellow-white or white in long-stalked, hemispherical, terminal heads subtended by 1-2 series of involucre bracts; calyx cupular, bristly; corolla with 5 unequal lobes and a short tube, lobes often 2-lipped. *Scabiosa* spp. are used in diverse situations in the garden; for example, in annual and cut flower borders valued for the translucent spherical seedheads used in dried arrangements, in the wild garden, and in dry sunny meadows, in approximation of habitat, where they form a valuable nectar source for bees and butterflies and a food source for caterpillars; in the rock garden; in the herbaceous border; and for

cutting. *Scabiosa* plants may be selected for their color from pure creamy white through soft lavender to strong blues and the soft pale yellows.

479 Sedum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Sedum*.

- (1) Note. The genus *Sedum* is part of the Crassulaceae family and includes over 300 species of usually succulent, annual to perennial herbs and subshrubs; stems erect or decumbent, sometimes tufted or creeping; leaves fleshy, compressed to round in cross section, alternate, opposite or sometimes whorled, entire or nearly so; inflorescence usually terminal, often a compound cyme; flowers usually hermaphrodite, floral parts in fives, occasionally 3-, 4-, 6-, or 7-merous, white or yellow, more rarely red or purple, very rarely blue; petals usually 5. The *Sedum* plant is the largest genus in the Crassulaceae family and is found in a wide range of habitats including marshlands, deserts, and alpine regions, with some forest epiphytes. Many are suitable in scale for the rock garden and are commonly grown outside or in the alpine house, although care must be taken in selection and siting since some species can be invasive or will spread indefinitely, swamping out less vigorous neighbors.

480 Senecio:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Senecio*.

- (1) Note. The genus *Senecio* is part of the Compositae family and includes about 1000 species of trees, shrubs, lianes, and herbs with alternate leaves, entire to variously lobed; capitula usually in corymbs, rarely solitary, usually radiate; receptacle flat, naked; phyllaries mostly uniseriate, sometimes with shorter subsidiary phyllaries at base of capitulum (calyculus); ray florets usually female; disc florets hermaphrodite, yellow, rarely white or purple. *Senecio* is an enormous and extraordinarily diverse genus in terms of cultivation requirements, with a

huge number of species that are scarcely ornamental and many that prove noxious and invasive weeds in habitat. The hardy ornamental species include the group of low growing alpine natives suited in scale to the rock garden, most of which are pioneering species of poor, dry gravelly soils.

481 Silene:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Silene*.

- (1) Note. The genus *Silene* is part of the Caryophyllaceae family and may also be referred to as Campion or Catchfly. *Silene* includes about 500 species of annual, biennial, or perennial herbs, often woody at the base and sometimes suffrutescent; inflorescence very varied, often few flowered, or flowers solitary; flowers usually hermaphrodite; but in some species, unisexual flowers occur and a few species are strictly dioecious; calyx more or less tubular with (5)10-30(60) veins and 5 teeth, sometimes strongly inflated; petals with entire, notched, or bifid (rarely 4-fid) limb and narrow claw, with or without coronal scales. *Silene spp.* are diverse, beautiful, and with few exceptions, a cold-hardy genus and can be used in a number of situations in the garden, such as in the rock garden and in the alpine house.

482 Sinningia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Sinningia*.

- (1) Note. The genus *Sinningia* is part of the Gesneriaceae family and includes some 40 species of perennial, tuberous herbs and shrubs, rarely rhizomatous; leaves opposite or in whorls, and often crowded at the base of the stem; flowers solitary or clustered in leaf axils, occasionally scented; campanulate to cylindric corolla; limb broad, spreading, 2-lipped, lower lip 3-lobed, upper lip 2-lobed, lips often indistinct. *Sinningia spp.* usually occur in tropical zones with seasonal rainfall, and die back to the tuber in dry periods. They are grown for their large velvet-textured flowers; they require

intermediate to warm glasshouse protection and may be successfully moved to the home or cooler glasshouse when in flower.

483 *Solidago*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Solidago*.

- (1) Note. The genus *Solidago* is part of the Compositae family and may also be referred to as Goldenrod. *Solidago* plants include about 100 species of perennial herbs with short rootstock or rhizome; stems simple at the base and branching below panicles; leaves alternate, often dentate or in rosettes; capitula small, radiate, usually many, in fascicles, thyrses, or scorpioid or corymbose panicles; involucre more or less cylindric; phyllaries imbricate in many rows; ray florets few to several, female and yellow; tubular disc florets, hermaphrodite, and yellow. *Solidago* plants are suitable for larger herbaceous borders; the hybrids and cultivars are greatly valued for their tolerance of a range of conditions in cultivation and for their late summer color, a number making excellent cut flowers. The species occur in a range of habitats, and most are more suitable for the wild garden and other naturalistic plantings in conditions that approximate the conditions of those in habitat.

484 *Stokesia*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Stokesia*.

- (1) Note. The genus *Stokesia* is part of the Compositae family and may also be referred to as Stokes Aster. *Stokesia* plants include 1 species of erect perennial herbs which grow to 1 m. with alternate, elliptic to oblong-lanceolate leaves, margins entire or spinose toward the base; capitula radiate to 10 cm in diameter, solitary and terminal or few to many in a corymb; phyllaries in many series, oblong to lanceolate; receptacle flat, naked; florets white, yellow to pale lavender to deep indigo; ray florets spreading, 5-lobed. *Stokesia* plants are grown

for cutting and at the front of the herbaceous border for their pretty, fringed, cornflower-like blooms carried over long periods, usually from summer into autumn, although in climates approximate to the climates of those in habitat *Stokesia* may bloom throughout the year. The foliage makes an evergreen and winter-persistent basal rosette above a fleshy rootstock which is prone to rot in moist and heavy soils in winter.

485 *Sutera*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Sutera*.

- (1) Note. The genus *Sutera* is part of the Scrophulariaceae family and may also be referred to as *Jamesbrittenia* or *Jamesbrittenia grandiflora*. *Sutera* plants include about 130 species of annual or perennial herbs, subshrubs, and small shrubs with leaves usually opposite, sometimes clustered, entire, toothed, or lobed; inflorescence an axillary or terminal raceme, spike, or cyme; corolla not spurred, tube long or short, straight or curved upwards at apex, with 5 lobes, subequal or forming 2 lips. A charming compact perennial suitable for bedding schemes in cool regions or for permanent edging where temperatures do not fall below 5 C/40 F.

486 *Tiarella*:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Tiarella*.

- (1) Note. The genus *Tiarella* is part of the Saxifragaceae family and may also be referred to as False Mitrewort or Sugar Scoop. *Tiarella* plants include about 5 species of rhizomatous perennial herbs, which grow to 50 cm with basal, orbicular, cordate, trifoliate, dentate, or palmate leaves and long petioles; racemose scapose, simple or branched, and usually terminal; flowers small, white or red; sepals 5, fused at the base to form a campanulate cup, lobes triangular; 5 petals, clawed, elliptic to lanceolate or filiform. *Tiarella* plants are frost hardy in most northern temperate zones, although they will suffer from prolonged winter wet-

ness. They often provide autumn color and have fine foliage worthy of the treatment accorded choicer specimens which thrive on shady beds. Remove decayed leaves in winter and protect the rhizomes with a mulch of garden compost. *Tiarella* plants require shade and a moist, humus-rich soil.

487 Torenia:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Torenia*.

- (1) Note. The genus *Torenia* is part of the Scrophulariaceae family and includes some 40 species of perennial or annual herbs, glabrous to hirsute, branched, somewhat decumbent; opposite, entire, crenate leaves; inflorescence a short terminal or axillary raceme, short, few-flowered; calyx tubular, plicate or 3-5-ribbed and – winged; corolla 2-lipped, tube cylindrical or dilated above, upper lip erect, concave, 2-cleft sometimes obscurely so, lower lip patent, 3-lobed. *Torenia* plants are suited best for moist soil, in part shade.

488 Tricyrtis:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Tricyrtis*.

- (1) Note. The genus *Tricyrtis* is part of the Liliaceae family and may also be referred to as Toad Lily. *Tricyrtis* plants include 10-16 species of perennial herbs with short, creeping rhizomes; stems 20-110 cm, leafy, erect or arched, simple below or with few branches; leaves are ovate to lanceolate, alternate, sometimes amplexicaul or subsessile, somewhat plicate, occasionally with dark green spots; inflorescence terminal or in upper leaf axils, erect, solitary, or cymose, loosely dichotomous; flowers white or yellow with purple spots, bisexual, few, campanulate, with fairly long pedicels; tepals, style and filaments usually spotted violet to red-purple. *Tricyrtis* plants are handsome perennials of elegant and graceful habit, with upright arching stems clothed with attractive stem-clasping leaves. sometimes, also, with conspicuous velvety down. They are grown

for their subtly colored flowers, of substantial waxy texture and curious form, beautifully spotted and freckled with contrasting shades of rich chocolate, purple, and maroon.

489 Verbascum:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Verbascum*.

- (1) Note. The genus *Verbascum* is part of the Scrophulariaceae family and includes some 250-300 species of mostly biennial herbs, sometimes annual, perennial, or subshrubs with alternate leaves, usually in a rosette, simple, entire, or crenately or sinuately lobed, sometimes pinnatifid, often soft, sometimes densely woolly; inflorescence often pachycaul, a spike, a panicle or a raceme; flowers yellow, tawny, red, red-brown, purple, blue, or sometimes white; calyx deeply 5-parted; corolla rotate; tube short, 5 lobes, subequal. The erect resinous stems, dipped in tallow, were once used as candles; the entire candelabra inflorescence has been used as a professional torch. The Romans used *Verbascum* cosmetically as a hair dye, and its woolly foliage was used by European peasants as a warm lining for footwear. The seed when fed to fish was soporific and rendered them more easily poached.

490 Zantedeschia or Calla Lily:

This subclass is indented under subclass 263.1. Plant which belongs to the genus *Zantedeschia*.

- (1) Note. The genus *Zantedeschia* is part of the Araceae family and may also be referred to as Arum Lily or Calla Lily. *Zantedeschia* plants include 6 species of rhizomatous perennial herbs which grow to 2.5m; rhizomes subterranean, fleshy, oblique, much branched; leaves to 45 cm+, borne from apex of rhizome, deciduous or evergreen, lanceolate to orbicular, base cuneate or truncate, or hastate, sagittate to cordate, apex acute or obtuse with subulate tip, usually dark green, spotted, or unspotted, margin undulate, main lateral veins united with marginal vein, minor veins reticular; petioles spongy, long, often exceeding length of

lamina, sheathed at base, peduncle long, often much exceeding foliage; spathe subcylindric to funnel-shaped, convolute at base, apex often recurved, to 25 cm, ivory-white, cream, yellow, to pink or rosy-purple, often with purple blotch at base within, persistent; spadix sessile to stipitate, much shorter than spathe, usually yellow, flowers unisexual, male and female zones adjacent, male much longer than female zone; perianth absent. In recent years, cultivars with spathes in rich tones of pink, ruby, mauve, green, and yellow have enjoyed popularity as pot plants and cut blooms.

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