

1	MISCELLANEOUS	309.1	.....Indefinite length article
1.51	ELECTROSTATIC CLEANING	309.2	.....Plurality of discrete articles
1.52	.Hand implement		
1.7	SUBMERGED CLEANERS WITH AMBIENT FLOW GUIDES	310	...Manual application of work to cleaning means
3	MACHINES	311	.....With moving work-agitating means
3.1	.For fruit, vegetables, meat or eggs	312.1	...With fixed guide for ambulant air draft applying means
3.11	..With assorting or screening	312.2	...Flexible tube
3.12	..Fluid application and/or work heating (e.g., drying)	313	...Installed in automobile or other vehicle for the cleaning thereof
3.13	...Work moved through apparatus		
3.14	....Liquid application only	314	...With flexible conduit connection between ambulant air draft applying means and relatively stationary air pump or supply
3.15	.....Work treating element and/or work immersed	315	...Extensible and retractable conduit
3.16	..Work moved through apparatus	316.1	...Air blast only (e.g., boiler soot-blower)
3.17	...Transverse axis work treating elements	317	...With blowing element housing or protecting feature, e.g., embedded, disappearing or cooling
3.18	....Longitudinally movable elements	318	...Moving nozzle with air supply control interlocked with nozzle motion means
3.19	...Fixed axis rotary work treating conveyor	318.1	...Sequence control
3.2	....Axial work feed	319	..With automatic control
3.21	...Work conveyor mounted work treating elements	320	..With liquid or other cleaning material application to work
3.5	.With means to pass a solid cleaning agent and a fluid carrier through tubular work	321	..Manipulatable nozzle with flexible conduit connection to portable power and/or material supply unit, e.g., window washer
3.51	..With conservation or recovery of the cleaning agent	322	...Nozzles
3.52	...By attached line	323	..With storage facilities for tools or nozzles, conduits, etc., e.g., racks and cabinets
3.53	.Erasing	324	..Illuminator for work area
300.1	.With air blast or suction	325	..With fender or bumper, i.e., furniture guard
301	..Fixed position cleaners or installed cleaning systems	326	..With sound muffling feature
302	..With liquid or other cleaning material application to work	327.1	..Tank type cleaner organization
303	...With work handling or supporting	327.2	...Casing feature
304	....Hollow work internal cleaning, e.g., bag and/or bottle cleaners	327.3	....Air float or support
305	....Tumbling cylinders or cages	327.4	....Cleaner encircling roller
306.1	....With means to guide or move the work to or through a cleaning station or treating means	327.5	....Off-the-floor support (e.g., operator supported)
307	.....With work-width compensating features	327.6	...Vertically aligned motor and filter
308	.....With work agitator, e.g., brushing, beating, shaking		
309	.....Plural diverse types, e.g., beating and brushing		

327.7	...Horizontally aligned motor and filter	352	...Separator element cleaning in situ and/or storage or removal of retained dirt
328	..Convertible		
329	...To or from hand held and hand manipulated	353	...With liquid and/or deflection type separator
330	...Suction to or from blast	354	..With work-contacting carriage or mount, and relatively adjustable nozzle
331	...Plural selective air draft means, e.g., on-floor to off-floor	355	..With agitator adjustable relative to nozzle
332	...With agitator and/or fan interlock, e.g., floor or rug safety feature	356	...Interlocked or simultaneous adjustment
333	....Floor nozzle elevating	357	...Suction responsive
334	....Floor nozzle air flow diverted to off-floor cleaning means	358	..With work surface contact or penetration sensing
335	....Tubular handle, e.g., "Air-Way" type	359	...Biased or floating nozzle
336	.....With supporting means, e.g., wall-mounted clamp	360	...Urged away from contact with work
337	.....By insertion or attachment of additive converter	361	..Handle operated or handle associated control
338	...Converter attached to floor nozzle mouth	362	..With nozzle carriage or mount having work-surface penetration control, e.g., differential area supporting wheels
339	..Combined, e.g., with signal or indicator	363	..With mechanical agitating means
340.1	..Power propelled vehicle or carrier	364	...Diverse agitating operations, e.g., brushing with beating or movable with stationary
340.2	...Maneuvered by walking attendant	365	...Selective
340.3	...Including brush	366	...Rotary only, e.g., "Hoover" type beating brush
340.4	...Plural brushes		
341	..Traction or manual operation of air pump or fan	367	...Stationary or non-moving agitating means only
342	..Rotary air impeller	368	..Adjustable with respect to nozzle
343	....Hand cranked		
344	..Hand supported and manipulated, e.g., miniature or upholstery type	369	...Responsive to translational movement of nozzles
345	..Air blast with suction	370	...Rotary agitator with radially adjustable elements, e.g., wear compensating
346	...Closed circuit systems, i.e., air recirculating	371	...Floating or resiliently biased contact with work surface
347	..With dust or dirt handling or storing or separating, e.g., filter bags	372	....Rotary work contactor
348	..With conveying means additional to air stream	373	...Retractable, i.e., selective use
349	..With receiver for dirt from rotary or moving agitator	374	...Oblique or V-shaped arrangement of agitator
350	...Separator mounted on or attached to manipulating handle, e.g., push broom type	375	..With auxiliary ambient air inlet to nozzle, e.g., through air tunnel and/or agitator
351	...Handle movable relative to floor tool air exhaust conduit	376	...Agitator bearing or drive air bleed

377	...Auxiliary or separate, i.e., non-fan, driving motor	407	....Work operated valve
378	..With guard to inhibit work entry into nozzle mouth	408	....With induced flow of ambient air, e.g., jet pump
379	...Vibrating nozzle or nozzle lips	409	..Jet pump suction-devices
380	...Rectilinearly moving parallel to work surface, e.g., scrubbing	410	..Handle features, e.g., limit stops or storage locks
381	...Oscillating agitator, e.g., sweeping	411	...Angular or lateral adjustment of cleaner by axial rotation of handle
382	...Striking beater, i.e., perpendicular movement	412	..Motor features, e.g., housing or casing assemblies
383	...Rotary agitator	413	...Air cooling by other than main air stream
384	....Tandem agitator units	414	..Detachable and/or extension nozzles
385	....Axis non-parallel to work surface	415.1	..Nozzle
386	....With eccentrically mounted turnable work contacting elements	416	...With plural mouths selectively usable, e.g., "duplex" nozzles
387	....Air current operated	417	....Top and bottom reversible type
388	....Traction operated	418	...With area adjusting, e.g., restrictors
389	....Drive details	419	...With air flow control means, e.g., work-operated valve
390	.....With clutch or other drive disconnect	420	...With notched or grooved lips for localized intensification of air draft
391	.....Belt or drive housings or other protective features	421	...With auxiliary inlet for ambient air, e.g., vacuum relief
392	.....Agitator bearings or supporting details	422	...With guard to inhibit work entry into nozzle mouth
393	...Stationary agitator	422.1	...Width changes along transverse dimension
394	...Work piece surrounding or opposed agitators, e.g., bar or slat cleaners	422.2	..Plural fans
395	...For opposed surfaces or hollow work internal cleaning	4	.Combined
396	...Hollow head with perforate reticulate supporting surface for agitator	5	..Beater and brush
397	....With tubular air nozzles interspersed throughout work contacting surface	21.1	.Brushing
398	....Bristle brush type	21.2	..Ball cleaner
399	....With bristle bridle or air seal or shroud	22.1	..Handle mount
400	....Nozzle attachment type	22.2	...Reciprocating tool
401	....Scraper or squeegee type	22.3	...Belt brush
402	....Serrated or toothed, e.g., comb or rake type	22.4	...Swinging tool
403	....Dry mop type, e.g., textile strand or sheet pelt	23	...Rotary cylinder
404	..With pulsating air flow	24	....Fountain
405	..Air blast only	25	....Manual motor
406	...For hollow work, internal cleaning, e.g., tube soot-blowers	26	....Alternating
		27	....Traction operated
		28	...Rotary disk
		29	....Fountain
		30	..Boot cleaning, blacking, and polishing
		31	...Polish supplying
		32	...Rotary reciprocating brush
		33	...Reciprocating brush

34	...Rotary brush	78	..Street sweepers
35	....Planetary	79.1	...Hand directed
36	..Boot cleaners and polishers	79.2	....Motor powered sweeper
37	..Reciprocating brush	80	...Belt brush
38	..Brush cleaners	81	...Reciprocating brush
39	..Comb cleaners	82	...Rotary-brush cylinder
39.5	..Table top or tablecloth cleaner	83	....Collector
40	..Flexible-fabric cleaners	84	.....Elevator belt
41.1	...Carpet sweeper	85	.....Elevator pan
42	....Auxiliary brush	86	.....Elevator wheel
43	....Combined fan and brush	87	...Rotary-brush disk
44	....Dust laying	88	..Wire, rod, and tube cleaners
45	....Fenders	88.1	..Work moves past nonrotatable brush
46	....Manual motor		
47	....Non-rotary	88.2	..Work moves past rotatable brush
48	....With brush cleaner	88.3	...Cylindrical brush
48.1	....Unidirectional drive	88.4	..Cylindrical brush moves past work
48.2	....Bellows type		
49.1	..Floor and wall cleaner	89	.Beating
50.1	...Scrubber	90	..Rotary drum
50.2	....Reciprocating brush	91	..Stationary work
50.3	....Cylindrical brush	92	...Portables
51	....Endless wiper	93.1	.Scraping
52	....Rotary wiper	93.2	..Coke oven cleaner
52.1	..Cylindrical brush	93.3	..Ditcher
52.2	..Reciprocating brush	93.4	..Pallet, board, panel, etc.
53.1	..Vehicle cleaner	94	.Shaking
53.2	...Cylindrical brush	95	.Shotting
53.3	....Moving vehicle	96	..Shakers
53.4	...Wheel washer	97.1	.Wiping
54	..Rail sweepers	97.2	..Shoe polisher
55	...Rotary brush	97.3	..Vehicle cleaner
56	..Receptacle cleaners	98	..Floor and wall cleaner
57	..Barrel	99	...Endless belt
58	....Single stage	100	..Photographic-film cleaners
59	...Bottle	101	..Receptacle cleaners
60	....Endless carrier	102	..Sheet, bar, and plate cleaners
61	.....Tank	103	..Window cleaners
62	....Reciprocating bottle rack	103.5	..Rolling contact type with material supply
63	....Rotary carrier		
64	.....Tank	104.001	IMPLEMENTS
65	....Single bottle	104.002	..Adhesive lint remover
66	.....Bottle guide	104.011	..Cylinder, piston or plug cleaner
67	.....Neck cleaners	104.012	..Piston groove
68	.....Reciprocating brush	104.02	..Reamers
69	.....Water motor	104.03	..Pipe, tube, or conduit cleaner
70	...Can	104.04	..Outside
71	....Inside brush	104.05	..Inside
72	.....Collapsible	104.061	...Fluid current operated
73	...Cuspidor	104.062	....Cleaner plug insertion or removal device
74	...Dish		
75	...Tumbler	104.063	....Scraper with signalling device
76	....Immersion		
77	..Sheet, bar, and plate cleaners	104.066	...Brush or broom flue cleaner

104.067	....Suspended by a taut member (e.g., wire, rope, chain, etc.)	115	...Mop
		116.1	...Mop and wringer
		116.2	....Sponge mop
104.068	...Scraper flue cleaner	117	..Brush and squeegee
104.069	....Suspended by a taut member (e.g., wire, rope, chain, etc.)	118	..Wiper
		119.1	...Mop and wringer
		119.2	....Sponge mop
104.07	...Hammer	120.1	....Twister
104.08	...Tube deformer	120.2	.....Assisted by modified handle
104.09	...Rotary tool	121	...Squeegee
104.095	....Power source outside tube end	423	.Pen cleaner
104.096	.....Container cleaner	424	.Eraser
104.11	.....Inside boiler drum	425	..Including handling means
104.12	....Contiguous fluid motor	426	...And means for non-use attachment to a support
104.13	....Plural rotary cutter		...Which is pencil sheath or casing
104.14	....Centrifugally pivoted ...Reciprocating tool	427	....Eraser attachable to fore-end of sheath or casing
104.15	....Plural rotary cutter	428	....Including advancing means for erasive body
104.16	....Scraper, cutter, wiper or brush	429	.....Axially adjustable sleeve
104.165	.....Non-piercing fabric holder	430	....Including enclosure for base of erasive body
104.17	.....Expanding at both ends	431	....Multi-partite handling means
104.18	.....Expanding at one end	432	...Including advancing means for erasive body
104.19	.....Expanding between ends	433	...Directly adjustable erasive body
104.2	.....Radial bristle	434	.Penpoint or penholder
104.31	...Sewer	435	..Including projectable and retractable penpoint
104.32	....Grapple	436	..With means supporting or stabilizing implement in use
104.33	....Snake	437	..Including manually adjustable gripping or releasing means for penpoint
104.5	.Comb cleaners	438	...Pivoted or arcuately movable
104.51	..Multiple strand type	439	....About axis of penholder
104.52	...With rigid supporting frame	440	...Including opposed, relatively axially movable gripping members
104.53	....With attached brush	441	...And ejector
104.54	....Non-planar groups of strands	442	..Penholder shaped to receive or engage hand or finger
104.8	.With coating material receiver	443	..Penholder includes specific penpoint retaining means
104.9	.Machine-attachable bottle washing implement	444	..Specific penpoint
104.92	.Stationary implement with material supply	445	...Specific material
104.93	.Tool coated or impregnated with material supply	446	...Bifurcate
104.94	..Including means for manual manipulation of implement	447	.Beater
105	.Combined	141.1	..Rotary
105.5	..Mortar-joint finisher	141.2	..Grids and combs
105.51	..Eraser	142	..Particular Handle
105.52	...And brush	143.1	
105.53	...And cutter		
106	..Brush		
107	...Dauber and polisher		
110	..Brush and massage-tool		
111	..Brush and scraper		
112	...Boot cleaners		
113	....Hand		
114	..Brush and wiper		

144.1	..Adjustable	190	..Tuft fasteners
144.2	...Universally	191.1	..Tuft socket
144.3	...Variable length	192	...Cemented
144.4	....Telescopic	193	....Plastic mass
145	..Detachable	194	...Detachable tuft
146	..Holders, brush and broom	195	...Folded tuft
147.1	..Holder, mop	196	....Drawn work
147.2	..Nonclamped	197	....Metal bristle
148	..Convertible	198	.....Rotary
149	..Expansible	199	....Retaining wire
150	..Pivoted jaw	200	...Metal bristle
151	..Sliding jaw	201	...Movable tuft section
152	...Lever operated	202	...Detachable
153	...Screw operated	203	...Folding
154	..Spring wire and runner	204	...With core
154.2	..With shaker	205	...Folded tuft
159.1	..Brush or broom	205.2	...Fountain
160	..Special work	206	..Twisted bristle holder
161	...Boot cleaners	207	..Wire wound
164	...Hollow-ware cleaners	207.2	..Bristle configuration or composition
165	....Collapsible	208	..Fabric
166	...Stripping	209.1	..Wiper, dauber, or polisher
167.1	...Tooth or nail brush	210.1	...Special work
167.2	....Concurrently brushes plural tooth surfaces	210.5	....Graining implements
167.3	....Nail brush	211	....Hollow-ware cleaners
168	..Bridles	212	.....Expansible
169	...Adjustable	213	.....Rotary
170	...Straw supported	214	....Lens cleaners
171	..Heads and casings	215	....Mats
172	..Adjustable head	216	....Combined
173	..Axial clamp	217	....Tuft carrying
174	..Bands	218	....Razor cleaners
175	..Braces, caps, and shields	218.1	....Cutlery cleaners
176.1	...Detachable head	219	....Wall-paper cleaners
176.2	....With handle-head cooperating threads	220.1	....Window cleaner
176.3	....With screw-type fastener	220.2	.....Magnetic
176.4	....Perpendicularly insertable	220.3	...Venetian blind cleaner
176.5	.....With securing means	220.4	...Rod or wire cleaner (e.g., dipstick cleaner)
176.6	....With securing means	221	...Collection chamber
177	...Lateral clamp	222	...End grip
178	....Pivoted jaw	223	...Work face with exposed laminae
179	...Rotary	224	....Channeled
180	....Disk	225	....Coil
181	....Laminated		...Laminated
182	....Spiral bristle mount	226	....Strands
183	....Tuft-holding bar	227	...Mitts, cots, and shoes
184	..Housings	228	...Mops and heads
185	...Pivoted	229.1	....Having strands
186	..Individual-bristle mount	229.2	.....With fixed handle
187	...Integral	229.3	.....And cloth sheath type head
188	....Rubber	229.4	.....And pocket type head
189	..Stitched and wire bound	229.5	.....And twisted wire frame

- 229.6With pivoted handle
- 229.7And cloth sheath type head
- 229.8And pocket type head
- 229.9And twisted wire frame
- 229.11 ...Scourer (hand manipulated)
- 229.12 ...Fibrous mass (e.g., steel wool)
- 229.13With handle or holder
- 229.14 ...Powder puff
- 230 ...Rotary
- 230.1With cooling means
- 230.11Roller with handle
- 230.12Adhesively bound parts
- 230.13Coil wound
- 230.14Sectorized disc or cylinder
- 230.15Stitched laminates
- 230.16Interrupted work engaging surface
- 230.17Fabric-piercing securing element
- 230.18Working surface dished inwardly or outwardly
- 230.19With discrete mechanical fabric securing means
- 231 ...Sheet holders
- 232 ...Window cleaners
- 233 ...Tension frame
- 234 ..Feather
- 235 ..Pelts
- 235.3 ..Mortar-joint finisher or simulator
- 235.4 ..Mason's trowel or float
- 235.5 ..Darby type
- 235.6 ..Undulated
- 235.7 ..Corner type
- 235.8 ..Adjustable
- 236.01 ..Scrapers
- 236.02 ..Windshield
- 236.03 ..Paint roller
- 236.04 ..Gutter
- 237 ..Boot cleaners
- 238 ...Mats
- 239Pivoted link
- 240Filler block
- 241Wire
- 236.05 ..Plural bladed
- 236.06 ..Simultaneously useable
- 236.07 ..Arcuate scraping edge
- 236.08 ..Toothed or serrated
- 236.09 ..For plural surfaces
- 236.1 ..Rotary
- 244.1 ..Sponge or sponge with holder
- 244.2 ..Having pivoted handle
- 244.3 ..Having fabric cover or back
- 244.4 ..Sponge
- 245 ..Squeegee
- 245.1 ..Bladed spreader
- 246 **ATTACHMENTS**
- 246.2 ..For a vacuum cleaner
- 246.3 ..With treating means (e.g., deodorizing, sterilizing, etc.)
- 246.4 ..Moveable carriage
- 246.5 ..Tank cleaners
- 247 ..Covers and cover holders
- 248.1 ..Drip cup or splash guard for a brush or broom
- 248.2 ..For roller
- 249.1 ..Brush or broom-type flue cleaner
- 249.2 ..Scraper-type flue cleaner
- 249.3 ..Suspended by a taut member (e.g., wire, rope, chain, etc.)
- 250.001 ..Optical-member-attachable cleaner (e.g., windshield wiper)
- 250.002 ..Headlight cleaner
- 250.003 ..Mirror cleaner
- 250.01 ..With material applying means
- 250.02 ...Coordinated operation of cleaner and applying means
- 250.03 ...Supply source carried by cleaning element
- 250.04 ...Applying means moves with cleaning element
- 250.05 ..With heating means
- 250.06 ...Embedded in wiper blade
- 250.07 ...Movable with cleaning element
- 250.08Laterally offset to engage pane
- 250.09Heating element between plural blades
- 250.1 ..Window moved on cleaner
- 250.11 ..Readily attached and detached cleaner for building windows
- 250.12 ..Constant speed or automatic motor control
- 250.13 ..Sweep varying or regulating means
- 250.14 ..Plural out-of-phase cleaning elements
- 250.15 ..Cleaning element spring returned
- 250.16 ..With parking means
- 250.17 ...Electrical
- 250.18 ..Convertible to manual operation
- 250.19 ..Cleaning element moved from surface
- 250.201 ..Wind deflecting means

- 250.202 ..Pressure adjusting means for cleaning element
- 250.203 ...Operated by remote control
- 250.21 ..Compound motion of oscillating arm
- 250.22 ..Rotating cleaning element
- 250.23 ..Cleaning element moved relative to arm when arm moves
- 250.24 ..Chain, belt or cable carried cleaning element
- 250.25 ..Chain, belt or cable driven operating shaft
- 250.26 ..Screw type drive for reciprocating cleaning element
- 250.27 ..Operating connection for plural oscillating cleaning elements
- 250.28 ..Opposed cleaning elements
- 250.29 ..With means to reciprocate cleaning element
- 250.3 ..With means to oscillate arm
- 250.31 ..Specific coupling or mounting for a driving means or between a cleaning element and means linking it to the driving means
- 250.32 ...Arm-to-cleaning element connection
- 250.33Hinged longitudinally of cleaning element
- 250.34 ...Arm-to-actuating shaft detail
- 250.351 ..Specific arm structure
- 250.352 ..Between hub and extended arm
- 250.361 ..Cleaning element structure
- 250.37 ...With attached roller
- 250.38 ...Longitudinal tensioning means for blade
- 250.39 ...Adjustable length
- 250.4 ...Supplemental cleaning means brought into surface contact
- 250.41 ...Plural spaced surface engaging edges
- 250.43 ...Accommodates optical-member having curved surface
- 250.44Articulated support structure
- 250.451Specific backing member
- 250.452Securing a squeegee
- 250.453Secured by articulated structure
- 250.454Biased latching member
- 250.46Specific joint, hinge, or pivot
- 250.47Spring type
- 250.48 ...Specific squeegee structure
- 256.5 ..Moving surface scraper, wiper, or brush
- 256.51 ..Roll cleaners
- 256.52 ...Rotary
- 256.53 ...Reciprocating or traveling
- 256.6 ..Strand
- 257.01 **ACCESSORIES**
- 257.05 ..Coating applicator loading means
- 257.06 ..For loading roller type applicators
- 257.07 ..Inkwell
- 257.072 ...Including implement-actuated diaphragm to produce material moving force
- 257.073 ...Including means limiting immersion of penpoint
- 257.074 ...Anti-spill type
- 257.075 ...Including implement-opened access means
- 257.076 ...Including means defining applicator-loading zone
- 257.1 ..Debris receptacle (e.g., dustpan)
- 257.2 ..With means to attach to brush or broom
- 257.3 ..Separate inlet and outlet
- 257.4 ..Receptacle gravitatable to material retaining position
- 257.5 ..Foothold or pedal operator
- 257.6 ..With movable closure
- 257.7 ..Adjustable, relatively movable or detachable handle
- 257.8 ..Foot or prop on rear of receptacle
- 257.9 ..Auxiliary, flexible or reinforced edge
- 258 ..Blacking-box and brush cases
- 259 ..Blacking-box holders
- 260 ..Mop wringers
- 261 ..Presser boards
- 262 ..Roller
- 263 ..Twisters
- 264 ..Scrubbing pails
- 265 ..Shoe-blackening stands
- 266 ..Polisher guides
- 267 ..Shoe clamps
- 268 **WORK SUPPORTS**
- FOREIGN ART COLLECTIONS**
- FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

- DIG 1 RECHARGEABLE BATTER
- DIG 2 CAR CLEANING PLANTS
- DIG 3 MATRIX
- DIG 4 FERRULES
- DIG 5 VARIED LENGTH BRISTLE
- DIG 6 VARIED COMPOSITION BRISTLE
- DIG 7 DRIERS
- DIG 8 DUST BAGS AND SEPARATORS
- DIG 9 DUST MOP CLEANERS
- DIG 10 HANDLES, REELS AND SWITCHES
- DIG 11 INDICATORS
- DIG 12 TAPE HEAD CLEANER
- DIG 13 MAGNETIC TAPE CLEANER
- DIG 14 PHONOGRAPH RECORD CLEANER
- DIG 15 MOISTURE RESPONSIVE

