

1	CONTROL FOR FORWARD AND REVERSE	27	..Mounted on laterally shiftable countershaft
2	.Cyclical or sequential (e.g., machine controlled, etc.)	28	.Fluid pressure actuator for adjustment of member
3	..Including device for shifting belt laterally of its direction of run	29	.Including actuator interconnecting plural pulleys on spaced shafts for simultaneous adjustment
4	.Including separate belts for forward and reverse	30	..For axial adjustment of each member on each pulley
5	..Belt selection by shifting or tightening belt	31	...By dual lever mechanism
6	...Including device for shifting belt laterally of its direction of run	32	.Plural members forming plural belt-receiving grooves on common axis
7	.Including coaxial pulleys rotated in opposite directions by single endless belt simultaneously engaging both pulleys	33	..With member common to plural grooves
8	PULLEY WITH BELT-RECEIVING GROOVE FORMED BY DRIVE FACES ON RELATIVELY AXIALLY MOVABLE COAXIAL CONFRONTING MEMBERS (E.G., EXPANSIBLE CONE PULLEY, ETC.)	34	...Plural members common to plural grooves
9	.Members are gripping jaws actuated during each rotation of pulley	35	..Axially spaced members simultaneously adjustable
10	..Via relatively rotating cam and follower	36	...On bolt radially spaced from pulley axis
11	.Speed responsive	37	.By manual actuator for one or both confronting members
12	..And load responsive	38	..With neutral condition of drive
13	..To centrifugal force	39	..Screw actuated
14	...Via pivoted weight	40	...With additional linkage in actuator drive train
15	...Via ball	41	...By opposite-handed screw threads engaging adjacent members
16	...Via liquid	42	...With means to positively lock members in adjusted position
17	.Load responsive	43	.Including lubrication or particular guide or bearing for movable member
18	..With actuator driven by electrical or fluid motor	44	..Self-lubricated bearing
19	..Via relatively rotating cam and follower	45	..With lubrication of support for movable member
20	...Including interengaged threads	46	.With spring device
21	...Including plural separate cam and follower pairs for adjusting plural members	47	PULLEY WITH EXPANSIBLE RIM MEANS OR PULLEYS WITH ALTERNATELY USEABLE NESTABLE RIMS
22	.Temperature responsive	48	.Nestable rims of diverse kind (e.g., one grooved and the other cylindrical, etc.)
23	.Adjusted by power from pulley drive train	49	.Structure for variably adjusting radius of rim section
24	.And member has plural, relatively axially movable drive faces	50	..By actuator responsive to speed or load
25	.And pulley shiftable laterally of its axis of rotation	51	..By fluid pressure actuator or inflatable rim
26	..Mounted on laterally shiftable motor		

52	..Including means interconnecting plural pulleys for simultaneous adjustment	76	..Selection by axially movable pin engaged in opening through selected pulley
53	...Pulleys on spaced axes	77	.Including coaxial pulleys shiftable axially to align selected pulley with drive belt
54	..By actuator having collar concentric with, and movable axially on, pulley axis	78	.Including belt shiftable axially from one to another surface of stepped pulley or coaxial pulleys of different diameter
55	...Collar interconnected with rim sections via pivoted link	79	..And pulley pivotally mounted to facilitate belt shift
56	..By actuator having collar concentric with, and rotatable in plane perpendicular to pulley axis	80	..And including belt-shifter mechanism
57	...Collar interconnected with rim sections via pivoted link	81	...For shifting belt from both power input and power output pulleys
58	POWER OUTPUT PULLEY SELECTIVELY SHIFTABLE TO DIFFERENT POWER OUTPUT LOCATIONS RELATIVE TO INPUT PULLEY	82	...Shifter mechanism including parallelogram linkage
59	.Pivotable about plural axes	83	.Including mechanism for shifting belt axially on spaced pulleys with tapering drive face
60	..Nonparallel axes	84	PLURAL BELTS OR PLURAL OUTPUT LOADS
61	POWER INPUT AND OUTPUT PULLEYS ON NONPARALLEL AXES	85	.Plural belts having interengaged drive surfaces
62	..With common belt engaging both pulleys	86	.Plural output loads
63	..And shiftable guide roll engaging belt run	87	..With common belt concurrently engaging input and plural output pulleys
64	PLURAL TURNS OF SAME BELT ABOUT PULLEY AXIS	88	.Plural belts in series via countershaft
65	..With flexible belt-tracking guide helically coiled about pulley	89	..Countershaft laterally shiftable
66	..Plural turns of same belt about axis of each of laterally spaced pulleys	90	STATIC ELECTRICITY ELIMINATOR
67	..With guide roll	91	STRUCTURE FACILITATING LUBRICATION OF BELT, PULLEY, OR GUIDE ROLL
68	...Plural guide rolls	92	CLEANING DEVICE FOR BELT, PULLEY, OR GUIDE ROLL
69	CONTROL FOR VARIABLE INPUT TO OUTPUT SPEED-RATIO	93	FLUID-IMPELLING MEANS (E.G., FOR COOLING, ETC.)
70	.Condition responsive (e.g., responsive to speed, load, etc.)	94	RESILIENT CONNECTION BETWEEN PULLEY OR GUIDE-ROLL RIM AND MOUNT
71	.Cyclical or sequential (e.g., machine controlled, etc.)	95	HUB FORMED IN SECTIONS AND SEPARABLE BY MOVING SECTIONS RADIALLY APART (E.G., SPLIT PULLEY TO FACILITATE INSTALLATION, ETC.)
72	..Including intermeshing gears in one drive train		
73	..Including separate belt on each of coaxial pulleys selectively engaged in drive train		
74	..With overrunning clutch		
75	..Selection by tightening belt on selected pulley		

96	.And severance lines for separable rim sections diametrically opposite each other	119	.Belt shifter for shifting belt laterally or for selective engagement and supported disengagement of belt with pulley
97	..With spokes connecting hub section and rim section	120	..Pulley has slot in groove-forming flange facilitating belt installation or removal
98	...Plural integral spokes	121	..For shifting exterior surface of belt into engagement with pulley
99	...With discrete means connecting outer ends of integral spokes to rim	122	..For shifting belt laterally
100	AUXILIARY ENDLESS BAND FOR GUIDING BELT OR HOLDING BELT ENGAGED WITH PULLEY	123	...By adjusting axial inclination of belt guide roll
101	MEANS FOR ADJUSTING BELT TENSION OR FOR SHIFTING BELT, PULLEY OR GUIDE ROLL	124	...With idler support having circumferentially spaced rollers to receive shifted belt
102	.With sensor for controlling operation of shifter to correct belt training deviation	125	...Including means for selectively clutching coaxial idler support to pulley
103	..Shifter driven by electrical or fluid motor	126	...Shifter actuated by screw or gear drive
104	...Fluid motor	127	...Shifter actuated by flexible cable
105	..Sensor actuates pawl-and-ratchet mechanism to operate shifter	128	...Shifter actuated by handle pivoted about fixed axis
106	..Sensor includes rotatable belt-engaging surface	129	...And connector link between handle and shifter pivotable about spaced fixed axis
107	...Rotatable on same axis as shiftable guide roll or pulley	130	..Portable hand tool for removing or installing belt
108	...To initiate relative axial movement of belt-engaging surfaces of guide roll or pulley	131	.Guide roll forms belt-thickness gap with pulley
109	.Load responsive tension adjuster or shifter	132	.Gravity actuated guide roll for tensioning belt
110	.Tension adjuster or shifter driven by electrical or fluid motor	133	.Guide roll mounted for movement of its axis along arcuate path to tension belt
111	.Tension adjuster has surface in sliding contact with belt	134	..Plural guide rolls engaging single belt
112	.Pulley or guide roll has eccentric mount for shifting or tensioning movement	135	..Guide roll spring biased in belt-tensioning direction
113	.Pulley shifter	136	.Guide roll mounted for movement of its axis along rectilinear path to tension belt
114	..Pulley on shaft of adjustably mounted drive motor	137	..Plural guide rolls engaging single belt
115	...Spring biased in belt-tensioning direction	138	..Guide roll spring biased in belt-tensioning direction
116	..Pulley is vehicle drive pulley (e.g., bicycle sprocket, etc.)	139	PULLEY ENGAGES EXTERIOR SURFACE OF BELT
117	..Spring biased in belt-tensioning direction	140	BELT GUIDE HAS SURFACE IN SLIDING CONTACT WITH BELT
118	..Pulley shiftable into engagement with exterior of belt surface		

141	PULLEY HAVING CIRCUMFERENTIALLY SPACED PORTIONS OF DRIVE FACE SPACED UNEQUAL DISTANCES FROM PULLEY AXIS OF ROTATION (E.G., ELLIPTICAL PULLEY, ETC.)	163	..Movable with respect to each other during operation
142	MAGNETIC ATTRACTION BETWEEN BELT AND PULLEY	164	..Having axially spaced sets of belt-engaging surfaces
143	FABRIC DRIVE FACE ON BELT AND PULLEY	165	..With stationary support for pulley or guide roll
144	GUARD OR HOUSING FOR BELT OR PULLEY	166	FRICITION DRIVE PULLEY OR GUIDE ROLL
145	.Connected to belt	167	..With particular belt
146	..Extending along entire length of belt run	168	..Including plural, coaxial, circumferential belt-receiving grooves
147	..Individual tubular housings for opposite belt run	169	..Plural grooves of different circumferences
148	SYSTEM INCLUDING SPACED PULLEYS INTERCONNECTED BY A BELT	170	..Plural grooves formed in unitary member
149	.Positive drive pulley and friction drive pulley connected by same belt	171	..And additional coaxial surface for engaging same belt in shifted condition or for engaging auxiliary belt, brake, or clutch member
150	.With frame or mount for system	172	..Guide roll on axis perpendicular to top surface of belt for engaging side of belt
151	AUXILIARY MEMBER REMOVABLY ATTACHED TO PULLEY OR GUIDE ROLL FOR PREVENTING LATERAL DISPLACEMENT OF BELT	173	..And additional guide roll for engaging top or bottom surface of belt
152	POSITIVE DRIVE PULLEY OR GUIDE ROLL	174	..Pulley or guide roll including circumferential belt-receiving groove
153	.With particular belt	175	..Groove formed by rugate or circumferentially spaced drive surfaces
154	..Belt has spherical or hemispherical drive faces	176	..Groove formed by multiple, abutting, circumferentially connected members
155	..Belt formed of rigid links	177	..And circumferentially continuous belt-engaging layer or insert of diverse material added on or between groove-forming flanges
156	..With sequential links pivoted about discrete pivot pin	178	...Layer or insert of resilient material
157	...And each link has integral surfaces forming inwardly opening groove	179	..Including connected discrete axially spaced groove-forming flanges
158	..And additional coaxial surface for engaging same belt in shifted condition or for engaging auxiliary belt, brake, or clutch member	180	...Connected via nesting cylindrical or conical surfaces integral with the flanges
159	..Coaxial surface is belt-engaging surface on friction drive pulley	181	...And abutting radial surfaces integral with the flanges
160	..Coaxial surface is belt-engaging surface on positive drive pulley of different circumference	182	...Including connector extending through opening in abutting surfaces
161	.Having nonmetallic component		
162	.Having belt-engaging surfaces on discrete circumferentially spaced, relatively movable or replaceable members		

183Connector comprises tang integral with one of the surfaces	208	..Including wire member coiled about pivotal axis between links
184	.Pulley or guide roll having plural, discrete belt-engaging faces for engaging flat belt	209	..Including ball or roller bearing circumferentially spaced about pivotal axis between links
185	..Circumferentially spaced faces		
186	...And axially spaced faces	210	..Links pivotable about diverse axes during operation (e.g., "universal" connection facilitating alignment with sprockets in diverse planes)
187	..Each face has continuous circumferential periphery	211	...Ball-and-socket connection
188	.Including grooves or openings in cylindrical belt-engaging surface (e.g., for escape of air, etc.)	212	..Link including integral surfaces forming inwardly opening groove (e.g., silent chain, etc.)
189	..Circumferentially extending grooves	213	...Plural links having laterally aligned groove-forming surfaces
190	.Including nonmetallic belt-engaging surface portion	214	...Connector or bearing member extending through or positioned in laterally aligned openings in adjacent links is noncircular in transverse cross section
191	..Rubber		
192	...With embedded metal layer	215Multiple connector or bearing members extend through or positioned in common opening
193	..Leather	216Concave surface of one connector or bearing member abuts convex surface of another connector or bearing members
194	..Wood or paper		
195	.With spokes connecting rim to hub	217Plural connector or bearing members with concave surface abut convex surface or surfaces on another connector or bearing member
196	..Plural spoke sets axially spaced	218	..Including diverse member for interconnecting opposite ends to complete loop (e.g., repair link for broken chain, etc.)
197	.Cylindrical rim interconnected to axially spaced support members	219	..Including separate locking member for retaining link-connector in laterally aligned openings through adjacent links
198	.With stationary support for pulley or guide roll	220	...Common locking member retains longitudinally spaced connectors
199	..And ball or roller bearing for mounting pulley or guide roll on support	221	...Strandlike locking member (e.g., wire, etc.)
200	MOBIUS BELT	222	..Threaded connection between connector and locking member
201	BELT HAVING DRIVE SURFACES ON OPPOSITE SIDE EDGES OF STACKED PLATES HAVING PLANAR FACES PERPENDICULAR TO DIRECTION OF BELT MOVEMENT		
202	POSITIVE DRIVE BELT		
203	.Drive surfaces on belt formed by spherical or hemispherical elements		
204	.Drive surfaces on belt formed in or interconnected by continuous flexible member		
205	..Drive surfaces on longitudinally spaced teeth formed integral with flexible member		
206	.Belt formed of rigid links		
207	..Including nonmetallic part		

223	...Locking member received in annular groove extending entirely around circumference of connector	241	..Forming imbricate structure
224	...Locking member includes portion disposed within opening which receives connector	242	..Belt has oppositely facing side drive surfaces (e.g., "V-belt", etc.)
225	...Locking member extends through all aligned openings	243	...Surfaces on ball or roller elements
226	..Link including discrete members forming laterally spaced sides of opening for pulley tooth	244	...Oppositely facing surfaces are on pair of discrete elements
227	...With particular structure facilitating disassembly of adjacent links	245	...And sequential pairs are interconnected longitudinally by distinct pivot elements
228	..With discrete connector extending through laterally aligned apertures in adjacent links	246	..Plural, inwardly facing drive surfaces along the direction transverse to longitudinal extent of belt
229	...Connector has bearing surface which is noncircular in transverse cross section	247	...And plural, inwardly facing drive surfaces along the direction parallel to longitudinal extent of belt
230	...Connector connects sequential links each having discrete members forming laterally spaced sides	248	.Including link-chain coextensive with continuous surface belt
231With sleeve rotatable with respect to each link for engaging pulley tooth	249	.Including groove, openings or pockets formed in belt surface and arranged along entire length of belt (e.g., for flexibility, air escape, etc.)
232	..Link including common member forming laterally spaced sides of opening for pulley tooth	250	..Grooves transversely extending on belt surface
233	..With discrete member interconnecting sequential pulley-tooth-receiving links	251	...And additional groove on opposite surface
234	...Connector member inserted through lateral opening in pulley-tooth-receiving links	252	..Groove continuous and longitudinally extending
235	...Common member surrounds opening for pulley tooth on all sides	253	.Including particular means connecting opposite ends to form loop
236	...Member formed from sheet metal	254	..Connected by adhering surface on one end to surface on other end (e.g., by adhesive, heat, seal, etc.)
237	FRICITION DRIVE BELT	255	..Including discrete connector
238	.Including plural interconnected and transversely spaced pairs of oppositely facing side-drive surfaces (e.g., plural "V-belts", etc.)	256	...Connector comprises element inserted into longitudinal openings in belt ends
239	.Having drive surface on helically coiled wire or cord	257	...Connector comprises plate clamped externally of belt ends
240	.Including plural interconnected members each having a drive surface facing in a common direction	258	...Connector comprises cord sewn through belt ends
		259	.Drive surface on single sheet or web wound in plural, completely overlying convolutions
		260	.Including embedded elongated strand having multiple components or layers of diverse materials

- 261 .Including plural superposed
layers each having strands
particularly oriented relative
to belt dimension
- 262 ..Strands in the layers are
oblique to longitudinal run of
belt (e.g., plural layers of
bias fabric, etc.)
- 263 .Including discrete embedded
fibers
- 264 .Including plural layers of
different elastomeric
materials
- 265 .Having trapezoidal cross section
(e.g., "V-belt", etc.)
- 266 .Including fabric web (e.g.,
knit, woven, etc.)
- 267 ..Fabric having particular knit
or weave
- 268 ..And additional coating, layer,
or reinforcement of diverse
kind of material
- 269 ...Additional material is leather
- 270 ...Additional material is metal
- 271 ...Additional material is rubber
- 272 .Including metallic drive face
- 273 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

- 900 **PHASE VARIATOR**
- 901 **PULLEY OR GUIDE ROLL FOR TRACK OF
ENDLESS TRACK VEHICLE**
- 902 **PARTICULAR CONNECTION BETWEEN RIM
AND HUB**
- 903 **PARTICULAR CONNECTION BETWEEN HUB
AND SHAFT**

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