

1 R	MISCELLANEOUS	9	.Cam operated
1 SS	.High frequency vibratory devices	10 R	SHAFT OPERATORS (RADIO TUNER TYPE)
1.5	ESCAPEMENTS		
2	AUTOMATIC OPERATION OR CONTROL (E.G., TRIPS)	10.1	.Preselected position
3	.Speed controlled	10.15	..Step by step
3.2	..Valve gear trips (e.g., steam engine "Corliss" type)	10.2	..Rotatable stop and projectable abutment
3.5	.Retarded	10.22	..Digital dial type
3.52	..Plural, sequential, trip actuations	10.27	..Plural operator
3.54	..Clock train	10.29	...Cam and follower
3.56	...Winding knob trip (e.g., alarm mechanism)	10.31	....Adjustable cam
4	.Hit and miss	10.33	.....Sliding operator
5 R	GYROSCOPES	10.35	....Adjustable follower
5.1	.With caging or parking means	10.37	.....Sliding operator
5.12	..Rotor spin and cage release type	10.39	...Rack and pinion
5.14	..And resetting means	10.41	..With detent or clicker
5.2	.With gimbal lock preventing means	10.45	.Plural shafts
5.22	.Combined	10.5	.Plural speed
5.34	.Multiple gyroscopes	10.52	..Planetary
5.37	..With rotor drives	10.54	..Separate operators
5.4	.Gyroscope control	10.6	.Cam and follower
5.41	..Erecting	10.7	.Tensioned flexible operator
5.42	...By plural diverse forces	10.8	.Gear drive
5.43	...By jet	10.85	..Worm or screw
5.44	...By weight	10.9	.Lever and linkage drive
5.45	...By friction	10 A	.Remote control
5.46	...By magnetic field	813 R	ROTARY MEMBER OR SHAFT INDEXING, E.G., TOOL OR WORK TURRET
5.47	...By motor torque	814	.With safety device or drive disconnect
5.5	..Damping	815	.With locating point adjusting
5.6 R	.With pick off	816	.Preselected indexed position
5.6 A	..Optical	817	..Sequential
5.6 B	..Pneumatic	818	...Skip position
5.6 C	..Conducting liquid	819	...Held by torque
5.6 D	..Electrical	820	...Geneva or multilated gear drive
5.6 E	..Electrical and magnetic	821	...Velocity control
5.7	.With rotor drive	822	...Interlocked rotator and brake
5.8	.Vertical gyroscopes	823	....Diverse-type brakes
5.9	.Horizontal gyroscopes	824	.....With axially acting friction brake
5 F	.Flexure hinges for gyros	825	.Plural operators or input drives
5.95	.Flywheel structure	826	.With means to axially shift shaft
6	ENGINE STARTERS	827	.Single revolution input effects desired fractional output
7 R	.Automatic	813 C	.Control means
7 A	..Separate power mesher	813 L	.Locking means
7 B	..Holders	11	POWER TAKE-OFF
7 C	..Clutch connection	12	.Speedometer
7 D	..Worm and wheel	13	.Wheel take-off
7 E	..Reduction gearing	14	..Wheel bed type
8	.Radial meshing		

15	..Supported pulley	840	ROTARY DRIVEN DEVICE ADJUSTABLE DURING OPERATION RELATIVE TO ITS SUPPORTING STRUCTURE
15.2	..Plural take-off shafts		
15.4	..With independent change speed gearing	841	..Screw and nut adjusting means
15.6	..From shaft extension	842	..Rack and pinion adjusting means
15.63	..Prime mover shaft, e.g., crank shaft		MECHANICAL MOVEMENTS
15.66	..Change speed transmission shaft	20	..Oscillating to reciprocating and alternating rotary
15.69	..Vehicle propeller shaft	21	..Oscillating to reciprocating and intermittent rotary
15.8	..Intermediate ends of power transmitting line	22 R	..Rotary to reciprocating and rotary
15.82	..Vehicle propulsion transmitting line	22 A	..Rotary to reciprocating or rotary
15.84	...Between prime mover shaft and transmission	23	..Rotary to reciprocating and alternating rotary
15.86	...Drive from transmission gear	24	..Rotary to reciprocating and intermittent rotary
15.88	...Between transmission and propeller shaft	25	..Rotary to or from reciprocating or oscillating
16	POWER TABLES AND STANDS	26	..Head motions
17	WASHER AND WRINGER	27	..Reciprocating carriage motions
17.5	FULL STROKE MECHANISM	28	...Phonograph type
17.8	MOTION TRANSFER THROUGH IMPERFORATE FLEXIBLE SEAL	29	..Rack and pinion type
18	FLEXIBLE SEALING DIAPHRAGM ATTACHED TO MOVING ROD AND TO CASING	30	...Shifting rack
18.1	..Pivoting or nutating rod	31	...Shiftable pinion
18.2	..Longitudinally reciprocating rod	32	...Segmental pinion
828	ALTERNATING-MOTION DRIVEN DEVICE WITH MEANS DURING OPERATION TO ADJUST STROKE	33	...Alternately rotated pinion
829	..Constant length stroke with means to displace end limits	34	...Clutchable gears
830	..Cyclical displacement responsive to the alternating-motion	35	....Bevel
831	..Stroke adjustable to zero and/or reversible in phasing	36	..Overcoming dead center
832	..Plural driving means to jointly drive the driven device	37	..Belt or chain carried member
833	..Device driven from selected points on oscillating link	38	..Crank, lever, toggle, and slide
834	..Driving lever with adjustable pivot point	39	..Crank, lazy-tong, and slide
835	..Eccentric and strap drive, shiftable eccentric	40	..Crank, pitman, lever, and slide
836	...Changing the extent of eccentricity	41	...Pump jack type
837	..Crank pin drive, shiftable pin	42	..Crank, pitman, and lever
838	..Cam and follower drive	43	...Multiple levers
839	..Axial-type cam (e.g., wabblers type)	44	..Crank, pitman, and slide
		45	..Crank, lever, and slide
		46	...Rack connections
		47	..Crank and lever
		48	...Slidable connections
		49	..Crank and slide
		50	...Slidable connections (e.g., scotch yoke)
		51	..Crank and multiple pitmans
		52	..Planetary gearing and slide
		53	..Cam, lever, and slide
		54	..Cam and lever
		55	..Cam and slide
		56	...Axial cam
		57	....Grooved

58	.....Multiple screw	89.32	...Carriage surrounding, guided by, and primarily supported by member other than screw (e.g., linear guide, etc.)
59	.....Alternately rotated screw	89.33	...Carriage surrounded, guided, and primarily supported by member other than screw (e.g., linear guide, etc.)
60	..Wabblers type	89.34	...Shaft moves through rotary drive means
61	..Unbalanced weights	89.35	...Plural screws in series (e.g., telescoping, etc.)
62	..Trammel-pitman	89.36	...Deflection related
63	..Rotary to rotary	89.37	...Limit stop
64	..Inertia or centrifugal transmitters	89.38	...Including means to selectively transmit power (e.g., clutch, etc.)
65	..Crank, pitman, lever, and crank	89.39	...Means to selectively lock or retard screw or nut
66	..Crank, lever, and crank	89.4	...Contamination related
67	..Crank, pitman, and crank	89.41	....Imperforate enclosure
68	..Cranks, link connected	89.42	...Backlash
69	..Cranks, slidable connections	89.43	...Pressurized fluid introduced between nut and screw
70	..Rotary to alternating rotary	89.44	...Lubrication
71	..Mangle connections	89.45	...Manually driven
72	...Shiftable driven gear	89.1	..Including inertia device
73	....Central teeth	89.11	...With rack and pinion
74	...Multilated gearing connections	89.12	....Rectilinear rack
75	..Crank, pitman, and lever	89.13	..Including bevel gears
76	..Reciprocating rack connections	89.14	..Including worm
77	...Crank and pitman actuator	89.16	..Including spur gear
78	...Simple crank actuator	89.17	...With rack
79	..Oscillating rack connections	89.18	....Curvilinear rack
80	...Mangle actuated	89.19	....With biasing means
81	...Crank and pitman actuator	89.2	..Including flexible drive connector (e.g., belt, chain, strand, etc.)
82	..Flexible connector type	89.21	...With sprocket wheel
83	..Associated inertia devices	89.22	...With pulley
84 R	..Rotary to intermittent unidirectional motion	96	..Oscillating to oscillating
84 S	..Space machines	97.1	..Snap action
86	..Rotary to gyratory	97.2	...Plate spring
87	..Unbalanced weight	98	..Geared connections
88	..Reciprocating or oscillating to intermittent unidirectional motion	99 R	..Reciprocating to or from oscillating
89	..Reciprocating or oscillating to or from alternating rotary	100.1	..Snap action
89.23	..Including screw and nut	100.2	...Plate spring
89.24	...Shaft shorter than nut	101	..Compound lever and slide
89.25	...Auxiliary drive (e.g., fluid piston, etc.) for load	102	..Lever and slide
89.26	...Alternate power path operable on failure of primary	103	...Straight line motions
89.27	...Single input split into two intermediate outputs that are subsequently superposed into a single output	104	...Slidable connections
89.28	...Single input, plural outputs	105	...Link connections
89.29	...Plural inputs, single output	106	...Toggle transmissions
89.3	...Plural nuts driving shaft	107	...Cam connections
89.31	....Shaft and nut driven		

108	...Flexible connections	155	...Holding pawl lifter
109	..Rack and pinion	156	..Gripper mountings, lever
99 A	..Inclined ramp	157	...Reversible
110	..Reciprocating to reciprocating	158	...Multiple acting
111	MECHANICAL MOVEMENTS (INTERMITTENT GRIP TYPE)	159	....Single ratchet or clutch
112	..Rotary to intermittent unidirectional motion	160	..Gripper mountings, slide
113	..Automatically controlled	161	...Multiple acting
114	...Speed	162	..Grip features
116	..Rotary crank or eccentric drive	163	...Driving band
117	...Adjustable	164	....Clamping
118	...Lever transmitter	165	...Driven band and gripper
119	....Adjustable leverage	166	....Positive grip
120	...Rack and pinion transmitter	167	...Driving ratchet-bar or rack
121	....Adjustable throw	168	....Multiple acting
122	...Rotary cam drive	169	...Driven ratchet-bar and power dog
123	....Adjustable throw	625	ALTERNATE MANUAL OR POWER OPERATORS
124	....Radial cam	640	GEARING
125	....Radial cam	650	..Nonplanetary gearing differential type (e.g., gearless differentials)
125.5	..Intermittently engaged clutch		..Single gearing unit includes fluid drive
126	..Oscillation or reciprocation to intermittent unidirectional motion	655	..Plural prime movers selectively coupled to common output
127	..Screw and nut devices	661	..Plural power paths from prime mover
128	..Slide actuator	664	..Plural power paths to and/or from gearing
129	..Multiple acting	665 R	..Alternate input connections single hand crank
130	..Rack actuator	670	..Fluid drive divides or combines alternate paths
131	..Multiple acting	718	..One path includes fluid drive
132	....Inwardly facing racks	720	..Friction-type gearing
133	...Oscillating	721	..Worm-type gearing
134	....Multiple acting	724	..Single driven plural drives
135	....Inwardly facing racks	665 A	...Parallel
	..Strap actuator	665 B	...Nonparallel
136	..Multiple acting	665 C	...Aligned
137	....Spring or weight return	665 D	...Parallel and aligned
138	...Single acting	665 E	..Single drive plural driven
139	....Engine starter type	665 F	...Parallel
140	....Spring or weight return	665 G	....Spur
141	....Spring or weight return	665 GA	....Bevel
141.5	..Lever actuator	665 GB	....Spur and bevel
142	...Rotary driven element	665 GC	....Helical
143	....Multiple acting	665 GD	....Belt or chain
144	..Grip units and features	665 GE	...Nonparallel
145	..Compound movement handle	665 H	...Aligned
146	...Reversible	665 S	...Vehicle
147	...Transverse pivots	665 T	...Concentric
148	..Gripper releasing devices	665 K	..Plural drivers plural driven
149	...Power pawl lifter	665 L	
150	....Automatic		
151	....Idle stroke		
152	.....Cooperating holding pawl		
153	.....Power stroke		
154	.....Cooperating holding pawl		

665 M	...Bevel		...Single spur gear
665 N	...Spur	348	....Tumbler and cone
665 Q	..Alternate drivers and driven	349	.....Multiple cone
665 P	..Miscellaneous (plural power paths)	350	...Single bevel gear
730.1	..With fluid drive	351	...Pin or crown gears
731.1	..Condition responsive control	352	..Laterally slidable gears
732.1	..With one or more controllers for gearing, fluid drive, or clutch	353	...Rotary carriage
733.1	...With interrelated controls	354	...Swinging carriage
745	..In series plural interchangeably locked nonplanetary units	355	..Single forward and reverse speeds
810.1	..Reversal of direction of power flow changes power transmission to alternate path	356	..Slidable keys or clutches
810.2	..Input and output exchange functions	357	...Alternative clutch shaft
216.3	..Toothed gear and recirculated unconnected elements	358	...Multiple clutch shafts
318	..Alternating rotary or continuous	359	....Progressive
319	..Alternating rotary	360	.....Keys simultaneously slidable
320	..Progressive	361	....Selective
321	..Shiftable and/or slidable gears	362	....Multiple forward and reverse
322	..Clutchable gears	363	....Single forward and reverse
323	...On single driven member	364	...Single clutch shaft
324	...On single driving member	365	....Progressive
325	..Interchangeably locked	366	.....Multiple key
329	..Disconnectable counter shaft	367	.....Spur
330	..Multiple concentric clutch shafts	368	.....Fluid operated
331	..Plurality of counter shafts	369	.....Electrically operated
332	..Internal-external gears	370	.....Single key
333	..Combined gear and clutch	371	.....Clutch and ratchet
334	...Preselector	372	.....Spur gears
335	..Control mechanism	373	.....Intermediate clutch
	...Automatic	374	.....Sliding clutch carrier
336 R	....Speed responsive	375	.....Sliding clutch operator
336.5	.....Governor	376	....Selective
336 B	....With belt gearing	377	....Multiple key
337	....Torque responsive	378	.....Spur gears
337.5	...Cam operated	379	....Single speed forward and reverse
339	..Meshing assisters	380	.....Spur gears
340	...Double clutch and interposed transmission	381	....Single speed forward and reverse
	..Longitudinally slidable	382	.....Spur gears
	...Multiple spur gears	383	....Single speed forward and reverse
341	....With tumbler gear	384	.....Spur gears
342	....Selective	385	....Single speed forward and reverse
343	.....Direct clutch and drive	386	.....Spur gears
344	....Progressive	387	....Single speed forward and reverse
345	.....Direct clutch and drive	388 R	.....Spur gears
346	....Fluid operated	388 PS	.....Bevel gears
347	...Multiple bevel gears	389	.....Bevel and idler gears
		390	..Pivotally supported
		391	..Windmill turntable
		392	..Screw
		393	..Spur
		394	..Bevel
		395	...Wheel type
		396	...Wringer type
			388 R .Follow-up mechanism
			388 PS ..Power steering
			390 .Eccentric driving shaft and axle
			391 .Central driving shaft in axle
			392 .Parallel shafts, adjustable gear mesh
			393 .Varying speed ratio
			395 .Adjustable
			396 ..Relative movable axes

397	...Parallel shafts	424.88	.....Interconnected or cooperating rollers or roller structure
398	...Automatic control		
399	....Parallel shafts		
400	..Fixed axes	424.89	.....Non-recirculating rolling elements
401	...Parallel shafts		
402	...Automatic control	424.9	.....Captured sphere
403	....Parallel shafts	424.91	.....Cylindrical or quasi-cylindrical roller element (e.g., inclined roller, etc.)
404	..Reversing means		
404.5	..Governor control		
405	..Disconnecting means	424.92	.....Parallel to shaft
406	..Displaceable elements	424.93	.....Perpendicular to shaft
409	..Backlash take-up	424.94	...Less than 360 degrees of contact between nut and screw
410	..Pressure distributing		
411	..Yieldability in gear trains	424.95	.....Independent nut segments
411.5	..With brake means for gearing	424.96	.....Integral deformable tangs engaging screw
412 R	..Directly cooperating gears		
413	..Parallel axes or shafts	424.6	...Driven rack or shaft
414	...External type	424.7	...Screw
415	....Pin teeth	425	...Worm
416	..Intersecting axes	425.5	....Variable speed
417	...Bevel gear type	426	....Intermittent motion
422	..Rack and pinion	427	....Distribution of pressure
420	..Spur and bevel	412 TA	..Torque actuated safety devices
421 R	..Spur	431	.Gear and rotary bodies
421 A	...Motor and gearing	432	..Laterally-spaced wheels
423	..Bevel	433	..Radially-spaced wheels
424	...Motor vehicle drive	433.5	..With flywheel
424.5	..Spiral	434	.Rotary bodies
424.71	...Screw and nut	435	..Mutilated
424.72	....Plural longitudinally variably spaced nuts	436	..Geneva
424.73	....Threadless	437	..Irregular teeth and bodies
424.74	....Non-linear screw	438	..External and internal teeth
424.75	....Thread geometry	439	..Sectional
424.76	.....Thread pitch varies over axial length	440	...Backlash take-up
424.77	.....Shaft thread is spirally wound wire	441	....Screw and nut
424.78	....Nut disengageable from screw	443	...Sound deadening
424.79	.....Nut segments hinged parallel to shaft (e.g., clam shell-type, etc.)	444	...Differential disks
424.81	....Rolling element engaging thread	445	...Multiple disks
424.82	.....Recirculating rolling elements	446	...Separate rim
424.83	.....Plural independent recirculating element paths	447	....Detachable
424.84	.....Single thread common to plural paths	448	...Segmental rim
424.85	.....Roller return path in shaft	449	...Sheet metal
424.86	.....Return path geometry	450	...Diametrically split
424.87	.....Rolling element deflector	451	...Shaft-admitting insert
		457	.Teeth
		458	..Worm and helical
		459.5	..Bevel
		460	..Spur
		461	...Yieldable
		462	...Form
		464	....Antifriction
		465	.....Roller
		466	....Twisted
		467	.Lubrication

- 468 ..Teeth
- 469 **CONTROL LEVER AND LINKAGE SYSTEMS**
- 470 ..Resilient connections
- 471 R ..Multiple controlled elements
- 473.1 ..Transmission control
- 473.11 ...Fluid actuator
- 473.12 ...Electrical actuator
- 473.13 ...Occupant propelled vehicle
- 473.14Transmission controlled by flexible cable
- 473.15 ...Transmission controlled by flexible cable
- 473.16 ...Foot operated
- 473.17Multiple foot-operated controls
- 473.18 ...Control convertible between automatic and manual operation
- 473.19 ...Control of plural mechanisms (e.g., control of transmission and control of 4 - wheel drive)
- 473.2Separate control levers
- 473.21 ...Restriction of shift, gear selection, or gear engagement
- 473.22Prevention of reverse shift
- 473.23Separate actuator to disengage restrictor
- 473.24Shift element interlock
- 473.25With detent, recess, notch, or groove
- 473.26Resiliently biased interlock
- 473.27Spherical restrictor
- 473.28 ...Resiliently biased restrictor
- 473.29 ...having vibration damper
- 473.3 ...Manually operated selector (e.g., remotely controlled device, lever, push button, rotary dial, etc.)
- 473.31Control lever on steering column
- 473.32Control lever movable through plural planes
- 473.33Control lever movable through plural planes
- 473.34Spherical mount (e.g., ball and socket)
- 473.35Resiliently biased control lever
- 473.36 ...Particular element (e.g., shift fork, template, etc.)
- 473.37Shift fork structure
- 478 ..Foot operated
- 478.5 ...Offset extension
- 471 XY ..Control moves in two planes
- 479.01 ..Multiple controlling elements for single controlled element
- 480 R ..Interconnected
- 481 ...Hand and foot
- 482Accelerator
- 480 B ...Marine
- 483 R ..Interlocked
- 483 PB ...Push button
- 483 K ...Rod blocks actuation of rotary member
- 484 R ..Steering and controls assemblies
- 485 ...Rotary control shaft
- 486 ...Reciprocating control elements
- 487Flexible
- 488Handle bar type
- 489Flexible control element
- 484 H ...With horn control
- 490 ..Antirattling elements
- 490.01 ..Robotic arm
- 490.02 ...Including power cable or connector
- 490.03 ...Including electric motor
- 490.04 ...Including flaccid drive element
- 490.05 ...Joint between elements
- 490.06Wrist
- 490.07 ..Power elements as controlling elements
- 490.08 ...Planar surface with orthogonal movement and rotation
- 490.09 ...Planar surface with orthogonal movement only
- 490.1 ...Pair of power elements
- 490.11 ..Power and manual controlling elements
- 490.12 ..Manual controlling elements
- 490.13 ...Planar surface with orthogonal movement or rotation
- 490.14 ...Levers
- 490.15Pair of levers
- 491 ..Hand operated
- 492 ..Steering posts
- 493 ...Adjustable
- 494 ...Auxiliary operators
- 495 ...Position controllers
- 496 ...Motion translating mechanism
- 497Cam type
- 498Gear type
- 499Screw and nut
- 500Worm
- 500.5 ..Flexible transmitter (e.g., Bowden cable)
- 501.5 R ...Constant tension sustaining

501.5 H	....Hydraulic control	538	.....Slidable
501.6	...And hand operator	539	....Pedal controlled
502	....Slidable	540	...Lever carried rack
502.1	....For moving a mirror	541	....Pivoted
502.2	....Single rotatable lever (e.g., for bicycle brake or derailleur)	542	....Pedal controlled
502.3	...Including rolling antifriction elements	543	..Handles
502.4	...And sheath support, connector, or anchor	544	...Extension
502.5	...Specific cable or sheath structure	545	...Hand crank
502.6	...Specific cable connector or guide	546	....Extensible
503	..Sliding rod	547	....Collapsible
504	..Rotatable rod, shaft, or post	548	...Shaft connections
505	...Gear, drum, and cable	550	....Engine starter type
506	...Drum and cable	551	....Holders
507	...Gear	551.1	...Handle bars
508	....Variable ratio	551.2	....Spring biased or supported
509	....Screw and nut	551.3	....Folding or adjustable
510	...Adjustable	551.4	.....Sectional
511 R	...Mountings	551.5	.....Simultaneously movable
511 A	....Antenna	551.6	.....Continuous
512	..Foot operated	551.7	.....With handle latch
513	..Accelerator	551.8	....Attachments and accessories
514	..Signal	551.9	...Handholds and grips
515 R	..Knee operated	552	...Hand wheels
515 E	..Elbow	553	....Knob or dial
516	..Variable output force	554	....Slidable
517	..Flexible	555	....Pivoted
518	..Variable input leverage ..Elements	556	.....Releasable
519	..Levers	557	....Handles
520	...Toggle	558	....Rim grips and covers
521	....Lazy tongs	558.5	...Caps and covers
522	...Adjustable	559	..Rocker arms
522.5	...Swing posts	560	..Pedals
523	...Hand	561	...Treadles
524	....Jointed	562	...Extension
525	....Adjustable	562.5	....Offset
526	...Stops	563	...Pads and covers
527	..Detents	564	..Foot rests
528	..Hand crank	565	..Controller checks
529	...Interrelated lever release	566	..Slot closers and lever guards
530	...Gear		ELEMENTS
531	...Friction	567	..Cams
532	...Lever engaging	568 R	..Adjustable
533	...Lever engaging rack	568 FS	...Flexible strip
534	....Pivoted	568 M	...Memory devices
535	....Lever carried pawl	568 T	...Timer devices
536	....Handle release	569	..Follower
537	....Finger lever release	572.4	..Balancing for drum, e.g., washing machine or arm-type structure, etc., centrifuge, etc.
		570.1	..Eccentric
		570.2	..Plural, movable relative to each other (including ball(s))
		570.21	...Concentric

571.1 ..Adjustable
 571.11 ...Radially
 570.3 ..Having anti-friction means,
 e.g., roller bearing,
 lubrication, etc.
 572.1 .Power generating-type flywheel
 572.11 ..Structural detail, e.g.,
 material, configuration,
 superconductor, discs,
 laminated, etc.
 572.12 ...Containing fiber or filament
 572.2 .Flywheel, motion smoothing-type
 573.1 ..With fluid balancing means
 573.11 ...And pressure compensation
 573.12 ...And elastic device
 573.13 ...And bearings
 574.1 ..With electrical or magnetic
 damping
 574.2 ..Damping using swinging masses,
 e.g., pendulum type, etc.
 574.3 ..Damping by increasing
 frictional force
 574.4 ..Damping by absorbing vibration
 force (via rubber, elastomeric
 material, etc.)
 572.21 ..Structural detail, e.g., fiber,
 held by magnet, etc.
 575 .Pawls and ratchets
 576 ..Noiseless
 577 R ..Pivoted pawls
 577 S ...Single tooth
 577 SF ...Flexible single tooth
 577 M ...Multiple tooth
 578 ..Sliding pawls
 579 R .Pitmans and connecting rods
 580 ..Radial
 581 ..Yieldable
 582 ...Longitudinal springs
 583 ...Fluid cushion
 584 ...Automatic release
 585Toggle link type
 586 ..Longitudinally adjustable
 587 ..Hollow rod, lubricated
 588 ..Sheet metal type
 589 ..Counterbalanced
 590 ...Weight type
 591Rotating
 592 ...Spring
 593 ..Section coupled
 594 ..Bearings, adjustable
 579 E ..Engine type
 579 F ..Idler arm
 594.1 .Cranks and pedals
 594.2 ..With attached gear

594.3 ..Variable
 594.4 ..Pedals
 594.5 ...Counterbalanced
 594.6 ...With toe or shoe clips
 594.7 ...Adjustable or folding
 595 .Cranks and wrist pins
 596 ..Multiple throw
 597 ...Sectional
 598 ..Sectional
 599 ..Yieldable
 600 ..Adjustable
 601 ...Automatically
 602 ..Variable
 603 ..Counterbalanced
 604 ...Vibration dampers
 605 ..Lubricated
 606 R .Gear casings
 607 ..Axle and torque tubes
 606 A ..Cooling
 608 .Guards
 609 ..For rotary member
 612 .Guard mechanisms
 613 ..Automatic
 614 ...Oscillating member actuator
 615 ...Reciprocating member actuator
 616 ..Operator controlled
 617 ..Set screw

CROSS-REFERENCE ART COLLECTIONS

900 **PARTICULAR SHIFT PATTERN**

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 **TRANSMISSION CONTROL (74/473 R)**

FOR 101 .Foot operated (74/474)

FOR 102 .With detent mechanism (74/475)
FOR 103 .With reverse lockout (74/476)
FOR 104 .With interlocked elements (74/
477)
FOR 105 .Pivot mounting (74/473 P)
FOR 106 .Near steering wheel (74/473 SW)

DIGESTS

DIG 1 **HYDRAULIC CONTROL SYSTEMS**
 AUTOMATIC AUTOMOTIVE CONTROLS
DIG 2 **MISCELLANEOUS CONTROL SYSTEMS**
 (E.G., SHIP PROPULSION,
 MACHINE TOOLS, ETC.)
DIG 3 **MOVABLE VAN OR BLADE TORQUE**
 CONVERTERS
DIG 4 **MAGNETIC GEARING**
DIG 5 **GAS TURBINE WITH GEARING**
DIG 6 **TRANSISTOR-ELECTRONIC GEARING**
 CONTROLS
DIG 7 **INDICATORS-SENSORS AND METERS**
DIG 8 **MARINE CONTROL-SHIP TRANSMISSION**
 CONTROL MEANS
DIG 9 **PERPETUAL MOTION GIMMICKS**
DIG 10 **POLYMER DIGEST - PLASTIC GEARS**
DIG 11 **CREEPER SPEED**
DIG 12 **NOVIKOV GEARS**