## MISCELLANEOUS

- High frequency vibratory devices

## ESCAPEMENTS

### AUTOMATIC OPERATION OR CONTROL (E.G., TRIPS)

<table>
<thead>
<tr>
<th>3</th>
<th>Speed controlled</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>. . . . . . . . . . . . . .</td>
</tr>
</tbody>
</table>

## 1 R

### 5 SS

- With caging or parking means
- Rotor spin and cage release type
- And resetting means
- With gimbal lock preventing means
- Combined
- Multiple gyroscopes
- With rotor drives
- Gyroscope control
- Erecting
- By plural diverse forces
- By jet
- By weight
- By friction
- By magnetic field
- By motor torque
- Damping

### 5 R

- With pick off
- Optical
- Pneumatic
- Conducting liquid
- Electrical
- Electrical and magnetic
- With rotor drive
- Vertical gyroscopes
- Horizontal gyroscopes

### 5 F

- Flexure hinges for gyros
- Flywheel structure

## 6

### ENGINE STARTERS

- Automatic
- Separate power meshing
- Holders
- Clutch connection
- Worm and wheel
- Reduction gearing
- Radial meshing

## 9

### SHAF T OPERATORS (RADIO TUNER TYPE)

- Preselected position
- Step by step
- Rotatable stop and projectable abutment
- Digital dial type
- Plural operator
- Cam and follower
- Adjustable cam
- Sliding operator
- Adjustable follower
- Sliding operator
- Rack and pinion
- With detent or clicker
- Plural shafts
- Plural speed
- Planetary
- Separate operators
- Cam and follower
- Tensioned flexible operator
- Gear drive
- Worm or screw
- Lever and linkage drive
- Remote control

## 10 R

### 813 C

- Control means

## POWER TAKE-OFF

- Speedometer
- Wheel take-off
- Wheel bed type
15. Supported pulley
15.2. Plural take-off shafts
15.4. With independent change speed gearing
15.6. From shaft extension
15.63. Prime mover shaft, e.g., crank shaft
15.66. Change speed transmission shaft
15.69. Vehicle propeller shaft
15.8. Intermediate ends of power transmitting line
15.82. Vehicle propulsion transmitting line
15.84. Between prime mover shaft and transmission
15.86. Drive from transmission gear
15.88. Between transmission and propeller shaft

16. POWER TABLES AND STANDS
17. WASHER AND WRINGER
17.5. FULL STROKE MECHANISM
17.8. MOTION TRANSFER THROUGH IMPERFORATE FLEXIBLE SEAL
18. FLEXIBLE SEALING DIAPHRAGM ATTACHED TO MOVING ROD AND TO CASING
18.1. Pivoting or nutating rod
18.2. Longitudinally reciprocating rod

828. ALTERNATING-MOTION DRIVEN DEVICE WITH MEANS DURING OPERATION TO ADJUST STROKE
829. Constant length stroke with means to displace end limits
830. Cylindrical displacement responsive to the alternating-motion
831. Stroke adjustable to zero and/or reversible in phasing
832. Plural driving means to jointly drive the driven device
833. Device driven from selected points on oscillating link
834. Driving lever with adjustable pivot point
835. Eccentric and strap drive, shifttable eccentric
836. Changing the extent of eccentricity
837. Crank pin drive, shifttable pin
838. Cam and follower drive
839. Axial-type cam (e.g., wabbler type)

840. ROTARY DRIVEN DEVICE ADJUSTABLE DURING OPERATION RELATIVE TO ITS SUPPORTING STRUCTURE
841. Screw and nut adjusting means
842. Rack and pinion adjusting means

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

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### CLASS 74 MACHINE ELEMENT OR MECHANISM

<table>
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<th>Text</th>
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<td>CLASS 74 MACHINE ELEMENT OR MECHANISM</td>
</tr>
</tbody>
</table>

| 108 | ...Flexible connections |
| 109 | ...Rack and pinion |
| 99 A | ...Inclined ramp |
| 110 | . Reciprocating to reciprocating |
| 111 | MECHANICAL MOVEMENTS |
| 112 | (INTERMITTENT GRIP TYPE) |
| 113 | . Rotary to intermittent |
| 114 | unidirectional motion |
| 115 | ...Automatically controlled |
| 116 | . Rotary crank or eccentric drive |
| 117 | ...Adjustable |
| 118 | ...Lever transmitter |
| 119 | ...Adjustable leverage |
| 120 | . Rack and pinion transmitter |
| 121 | ...Adjustable throw |
| 122 | ...Rotary cam drive |
| 123 | ....Adjustable throw |
| 124 | .....Radial cam |
| 125 | .....Radial cam |
| 125.5 | ..Intermittently engaged clutch |
| 126 | . Oscillation or reciprocation to |
| 127 | intermittent unidirectional |
| 128 | motion |
| 129 | ...Screw and nut devices |
| 130 | ...Slide actuator |
| 131 | ...Multiple acting |
| 132 | ...Rack actuator |
| 133 | ...Multiple acting |
| 134 | ...Oscillating |
| 135 | ....Inwardly facing racks |
| 136 | ...Multiple acting |
| 137 | ....Spring or weight return |
| 138 | ...Single acting |
| 139 | ....Engine starter type |
| 140 | ....Spring or weight return |
| 141 | ....Spring or weight return |
| 141.5 | ...Lever actuator |
| 142 | ...Rotary driven element |
| 143 | ....Multiple acting |
| 144 | .Grip units and features |
| 145 | .Compound movement handle |
| 146 | ...Reversible |
| 147 | ...Transverse pivots |
| 148 | ...Gripper releasing devices |
| 149 | ...Power pawl lifter |
| 150 | ....Automatic |
| 151 | .....Idle stroke |
| 152 | ......Cooperating holding pawl |
| 153 | ....Power stroke |
| 154 | ....Cooperating holding pawl |
| 155 | ...Holding pawl lifter |
| 156 | ..Gripper mountings, lever |
| 157 | ...Reversible |
| 158 | ...Multiple acting |
| 159 | ....Single ratchet or clutch |
| 160 | ..Gripper mountings, slide |
| 161 | ...Multiple acting |
| 162 | ..Grip features |
| 163 | ...Driving band |
| 164 | ....Clamping |
| 165 | ...Driven band and gripper |
| 166 | ....Positive grip |
| 167 | ...Driving ratchet-bar or rack |
| 168 | ....Multiple acting |
| 169 | ...Driven ratchet-bar and power dog |

### ALTERNATE MANUAL OR POWER OPERATORS

| 625 | ALTERNATE MANUAL OR POWER OPERATORS |
| 640 | GEARING |
| 650 | . Nonplanetary gearing |
| 655 | . Single gearing unit includes |
| 661 | . Plural prime movers selectively |
| 664 | . Plural power paths from prime |
| 665 R | . Plural power paths to and/or |
| 670 | . Alternate input connections |
| 718 | . Fluid drive divides or combines |
| 720 | . One path includes fluid drive |
| 721 | . Friction-type gearing |
| 724 | . Worm-type gearing |
| 665 A | . Single driven plural drives |
| 665 B | ...Parallel |
| 665 C | ...Nonparallel |
| 665 D | ...Aligned |
| 665 E | ...Parallel and aligned |
| 665 F | ...Single drive plural driven |
| 665 G | ...Parallel |
| 665 GA | ...Spur |
| 665 GB | ...Bevel |
| 665 GC | ...Spur and bevel |
| 665 GD | ...Helical |
| 665 GE | ...Belt or chain |
| 665 H | ...Nonparallel |
| 665 S | ...Aligned |
| 665 T | ...Vehicle |
| 665 K | ...Concentric |
| 665 L | ..Plural drivers plural driven |

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665 M  ...Bevel
665 N  ...Spur
665 Q  ...Alternate drivers and driven
665 P  ...Miscellaneous (plural power
paths)
730.1  .With fluid drive
731.1  ..Condition responsive control
732.1  ...With one or more controllers
...for gearing, fluid drive, or
...clutch
733.1  ...With interrelated controls
745   .In series plural interchangeably
...locked nonplanetary units
810.1  .Reversal of direction of power
...flow changes power
...transmission to alternate path
810.2  ..Input and output exchange
...functions
216.3  .Toothed gear and recirculated
...unconnected elements
318   .Alternating rotary or continuous
319   .Alternating rotary
320   ..Progressive
321   ...Shiftable and/or slidable gears
322   ...Clutchable gears
323   ...On single driven member
324   ...On single driving member
325   ...Interchangeably locked
329   ...Disconnectable counter shaft
330   ...Multiple concentric clutch
...shafts
331   ...Plurality of counter shafts
332   ..Internal-external gears
333   ..Combined gear and clutch
334   ...Preselector
335   ...Control mechanism
...Automatic
336 R  ....Speed responsive
336.5  .....Governor
336 B  .....With belt gearing
337   ....Torque responsive
337.5  ...Cam operated
339   ...Meshing assisters
340   ...Double clutch and interposed
...transmission
...Longitudinally slidable
...Multiple spur gears
341   ....With tumbler gear
342   ....Selective
343   .....Direct clutch and drive
344   ....Progressive
345   .....Direct clutch and drive
346   ....Fluid operated
347   ....Multiple bevel gears
348   ...Single spur gear
349   ......Tumbler and cone
350   ...Single bevel gear
351   ...Pin or crown gears
352   ...Laterally slidable gears
353   ......Rotary carriage
354   ...Swinging carriage
355   ...Single forward and reverse
...speeds
356   ...Alternative clutch shaft
...Multiple clutch shafts
357   ...Progressive
358   ......Keys simultaneously slidable
359   ......Selective
360   ....Multiple forward and reverse
361   ....Single forward and reverse
362   ...Single clutch shaft
...Progressive
363   ......Multiple key
364   ......Spur
365   ......Fluid operated
366   ......Electrically operated
367   ......Single key
368   ......Clutch and ratchet
369   ......Spur gears
370   ......Intermediate clutch
371   ......Sliding clutch carrier
372   ......Sliding clutch operator
373   ......Selective
374   ......Multiple key
375   ......Spur gears
376   ......Single speed forward and
...reverse
377   ......Spur gears
378   ......Bevel gears
379   ......Bevel and idler gears
380   .Pivotedly supported
381   ..Windmill turntable
382   ..Screw
383   ...Spur
384   ...Bevel
385   ...Wheeled
386   ...Wheel type
387   ...Wring type
388 R  .Follow-up mechanism
388 PS ..Power steering
389   .Eccentric driving shaft and axle
390   .Central driving shaft in axle
391   .Parallel shafts, adjustable gear
...mesh
392   .Varying speed ratio
393   .Adjustable
394   .Relative movable axes
| 397 | ...Parallel shafts                  | 424.88 | ......Interconnected or cooperating rollers or roller structure |
| 398 | ...Automatic control               | 424.89 | ......Non-recirculating rolling elements |
| 399 | ....Parallel shafts                | 424.9  | ......Captured sphere |
| 400 | ..Fixed axes                       | 424.91 | ......Cylindrical or quasi-cylindrical roller element (e.g., inclined roller, etc.) |
| 401 | ...Parallel shafts                 | 424.92 | ......Parallel to shaft |
| 402 | ...Automatic control               | 424.93 | ......Perpendicular to shaft |
| 403 | ....Parallel shafts                | 424.94 | ......Less than 360 degrees of contact between nut and screw |
| 404 | .Reversing means                  | 424.95 | ......Independent nut segments |
| 404.5 | ..Governor control               | 424.96 | ......Integral deformable tangs engaging screw |
| 405 | .Disconnecting means               | 424.6  | ......Driven rack or shaft |
| 406 | .Displaceable elements            | 424.7  | ......Screw |
| 409 | .Backlash take-up                 | 425    | ......Worm |
| 410 | .Pressure distributing             | 425.5  | ......Variable speed |
| 411 | .Yieldability in gear trains       | 426    | ......Intermittent motion |
| 411.5 | .With brake means for gearing    | 427    | ......Distribution of pressure |
| 412 R | .Directly cooperating gears       | 412 TA | ..Torque actuated safety devices |
| 413 | ..Parallel axes or shafts          | 431    | .Gear and rotary bodies |
| 414 | ....External type                  | 432    | ..Laterally-spaced wheels |
| 415 | ....Pin teeth                     | 433    | ..Radially-spaced wheels |
| 416 | ..Intersecting axes               | 433.5  | ....With flywheel |
| 417 | ...Bevel gear type                | 434    | .Rotary bodies |
| 422 | ..Rack and pinion                 | 435    | ..Mutilated |
| 420 | ..Spur and bevel                   | 436    | ..Geneva |
| 421 R | .Spiral                           | 437    | ..Irregular teeth and bodies |
| 421 A | ...Motor and gearing               | 438    | ..External and internal teeth |
| 423 | ..Bevel                           | 439    | ..Sectional |
| 424 | ...Motor vehicle drive             | 440    | ..Backlash take-up |
| 424.5 | ..Screw                            | 441    | ....Screw and nut |
| 424.71 | ....Screw and nut                  | 443    | ....Sound deadening |
| 424.72 | ....Plural longitudinally          | 444    | ....Differential disks |
| | variably spaced nuts               | 445    | ....Multiple disks |
| 424.73 | ....Threadless                     | 446    | ....Separate rim |
| 424.74 | ....Non-linear screw               | 447    | ....Detachable |
| 424.75 | ....Thread geometry                | 448    | ....Segmental rim |
| 424.76 | .....Thread pitch varies over      | 449    | ....Sheet metal |
| | axial length                       | 450    | ....Diametrically split |
| 424.77 | .....Shaft thread is spirally      | 451    | ....Shaft-admitting insert |
| | wound wire                         | 457    | .Teeth |
| 424.78 | ....Nut disengageable from screw   | 458    | .Worm and helical |
| 424.79 | .....Nut segments hinged parallel   | 459.5  | .Bevel |
| | to shaft (e.g., clam shell-type, etc.) | 460    | .Spur |
| 424.81 | ....Rolling element engaging       | 461    | ....Yieldable |
| | thread                           | 462    | ....Form |
| 424.82 | ....Recirculating rolling          | 464    | ....Antifriction |
| | elements                         | 465    | .....Roller |
| 424.83 | ......Plural independent           | 466    | ....Twisted |
| | recirculating element paths       | 467    | .Lubrication |
| 424.84 | ......Single thread common to      |      |          |
| | plural paths                      |      |          |
| 424.85 | ......Roller return path in shaft   |      |          |
| 424.86 | ......Return path geometry          |      |          |
| 424.87 | ......Rolling element deflector     |      |          |

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CONTROL LEVER AND LINKAGE SYSTEMS

468 .Teeth

469 .Resilient connections

470 .Multiple controlled elements

471 R .Multiple controlled elements

473.1 .Transmission control

473.11 ...Fluid actuator

473.12 ...Electrical actuator

473.13 ...Occupant propelled vehicle

473.14 ...Transmission controlled by flexible cable

473.15 ...Transmission controlled by flexible cable

473.16 ...Foot operated

473.17 ...Multiple 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)

473.2 ...Separate control levers

473.21 ...Restriction of shift, gear selection, or gear engagement

473.22 ...Prevention of reverse shift

473.23 ...Separate actuator to disengage restrictor

473.24 ...Shift element interlock

473.25 .....With detent, recess, notch, or groove

473.26 .....Resiliently biased interlock

473.27 .....Spherical 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.)

473.31 ...Control lever on steering column

473.32 .....Control lever movable through plural planes

473.33 .....Control lever movable through plural planes

473.34 .....Spherical mount (e.g., ball and socket)

473.35 .....Resiliently biased control lever

473.36 ...Particular element (e.g., shift fork, template, etc.)

473.37 ...Shift fork structure

478 .....Foot operated

478.5 .....Offset extension

471 XY .Control moves in two planes
501.5 H ..Hydraulic control
501.6 ...And hand operator
502 ....Slidable
502.1 ....For moving a mirror
502.2 ....Single rotatable lever (e.g., for bicycle brake or derailleur)
502.3 ...Including rolling antifriction elements
502.4 ...And sheath support, connector, or anchor
502.5 ...Specific cable or sheath structure
502.6 ...Specific cable connector or guide
503 ...Sliding rod
504 ...Rotatable rod, shaft, or post
505 ...Gear, drum, and cable
506 ...Drum and cable
507 ...Gear
508 ...Variable ratio
509 ...Screw and nut
510 ...Adjustable
511 R ...Mountings
511 A ....Antenna
512 .Foot operated
513 ...Accelerator
514 ...Signal
515 R .Knee operated
515 E ...Elbow
516 .Variable output force
517 ...Flexible
518 ...Variable input leverage
519 ...Levers
520 ...Toggle
521 ...Lazy tongs
522 ...Adjustable
522.5 ...Swing posts
523 ...Hand
524 ...Jointed
525 ...Adjustable
526 ...Stops
527 ...Detents
528 ...Hand crank
529 ...Interrelated lever release
530 ...Gear
531 ...Friction
532 ...Lever engaging
533 ...Lever engaging rack
534 ...Pivoted
535 ...Lever carried pawl
536 ...Handle release
537 ...Finger lever release
538 ...Slidable
539 ...Pedal controlled
540 ...Lever carried rack
541 ...Pivoted
542 ...Pedal controlled
543 ...Handles
544 ...Extension
545 ...Hand crank
546 ...Extensible
547 ...Collapsible
548 ...Shaft connections
549 ...Engine starter type
550 ......Holsters
551 ......Holsters
552 ...Hand wheels
553 ...Knob or dial
554 ...Slidable
555 ...Pivoted
556 ...Releasable
557 ...Handles
558 ...Rim grips and covers
558.5 ...Caps and covers
559 ...Rocker arms
560 ...Pedals
561 ...Treadles
562 ...Extension
562.5 ...Offset
563 ...Pads and covers
564 ...Foot rests
565 ...Controller checks
566 ...Slot closers and lever guards
567 .Cams
568 R ...Adjustable
568 FS ...Flexible strip
568 M ...Memory devices
568 T ...Timer devices
569 ...Fan
570 ...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
585 ...Toggle link type
586 ...Longitudinally adjustable
587 ...Hollow rod, lubricated
588 ...Sheet metal type
589 ...Counterbalanced
590 ...Weight type
591 ...Rotating
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
608 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

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)

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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