U. S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLASSIFICATION ORDER 1846

MAY 3, 2005

Project No. M-5141

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search Room No.
Abolished:	74	570-574	3682	CPK5-6Y08
	464	61-68	3679	CPK5-7A10
	588	258	1754	REM-B15
Established:	74	5.95, 433.5, 570.1, 570.2, 570.21, 570.3, 571.1, 571.11, 572.1, 572.11, 572.12, 572.2, 572.21, 572.4, 573.1, 573.11-573.13, 574.1-574.4	3682	Not Applicable
	464	61.1, 62.1, 63.1, 64.1, 65.1, 66.1, 67.1, 68.1-68.4, 68.41, 68.5-68.9, 68.91, 68.92	3679	Not Applicable
Title Changes:	54	Class title	3643	Not Applicable
	588	249.5	1754	REM-B15
		250	3673	Not Applicable
		316	1754	REM-B15

The following classes are also impacted by this order.

Classes: 2, 16, 24, 29, 33, 43, 53, 59, 68, 73, 112, 119, 123, 135, 164, 168, 182, 185, 188, 210, 226, 241, 248, 254, 256, 278, 280, 297, 305, 310, 318, 322, 335, 336, 403, 422, 434, 451, 482, 492, 494

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES;

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES;

C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE;

D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS.

CLASSIFICATION ORDER 1846

MAY 3, 2005

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A. CLASSIFICATION MANUAL CHANGES

Additional and modified subclasses

CLASS 54 HARNESS FOR WORKING ANIMAL

MAY 2005

71	BREAKING AND TRAINING DEVICES
72	.Leg spreaders
77	OX YOKES
2	TRACK
3	YOKES
24	HALTERS
85	.Connectors
6.1	BRIDLE
6.2	.With halter
7	.Bits
8	..Mouthpieces
9	...Double
10	.Blinds
11	..Covering and uncovering
12	.Brow bands
13	.Crown loops
14	.Gag runners
15	.Stranglers
57	UNDERCHECKS
16	CHECKREINS
17	.Hook loops
61	CHECKHOOKS
62	.Movable keeper
70	CHECKING AND UNCHECKING DEVICES
35	MARTINGALES
36	REINS
74	REIN HOLDS
63	TERRETS
73	REIN GUARDS
34	HITCHING STRAPS
64	HITCHING STRAP HOLDERS
18.1	COMBINED COLLAR AND HAME
18.2	.With padding
18.3	..Adjustable
19.1	COLLAR
19.2	.Pneumatic
19.3	.Adjustable
20	.Breast
21	.Fasteners
25	HAMES
26	.Fasteners
29	..Top
27	..Lever
28	..Strap
30	HAME AND TRACE CONNECTORS
31	.Adjustable
32	HAME TUGS
33	.Adjustable
58	BREAST STRAPS
59	.Shields and connectors
50	THILL TUGS
51	.Open
52	TRACES
53	.Whiffletree connectors
54	TRACE CARRIERS
55	.Hook
56	TRACE END SUPPORTERS
69	ATTACHING AND DETACHING DEVICES
37.1	PACK SADDLE
38.1	HARNESS SADDLE
39.1	.Cart
40.1	.Pivoted side plates
41.1	.Cushion
42.1	.Saddle connecting means
43.1	.Tug bearers
44.1	RIDING SADDLE
44.2	.Including supplemental child saddle
44.3	.Adjustable
44.4	.With spring
44.5	.With padding
44.6	..Pneumatic
44.7	.Specific material
45.1	.Side
46.1	.With stirrup strap or connector
46.2	.With rigging bar
47	STIRRUPS
49	.Safety
49.5	.With spurs
48	.Elastic
23	GIRTHS
4	BACKBANDS
5	BREECHING
22	CRUPPERS
65	PADS
66	.Back
67	.Neck
68	.Fasteners
87	LOOPS
	TRIMMINGS
75	.Covered
76	.Ornamental
78	TAIL HOLDERS
79.1	BLANKET OR GARMENT
79.2	.With retaining means
79.3	.With padding
79.4	.Specific material
80.1	BONNET OR SHIELD
80.2	.Eye shield
80.3	.Nose guard
80.4	.Fly net
80.5	..Face guard
82	HORSE BOOTS
83.1	SPUR
83.2	.Adjustable to operative position
84	SUPPORTS
1	MISCELLANEOUS
	**********
	FOREIGN ART COLLECTION
	**********
FOR 000	CLASS-RELATED FOREIGN DOCUMENTS

Title Change
* Newly Established Subclass

@ Indent Change
& Position Change

CLASS 74 MACHINE ELEMENT OR MECHANISM

MAY 2005

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

MAY 2005

ALTERNATING-MOTION DRIVEN DEVICE WITH MEANS DURING OPERATION TO ADJUST STROKE
829 .Constant length stroke with means to displace end limits
830 ..Cyclical 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, shiftable eccentric
836 ...Changing the extent of eccentricity
837 ..Crank pin drive, shiftable 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 ...Shiftable 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 ..Cranks, link connected
69 ..Cranks, slidable 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.)

MECHANICAL MOVEMENTS
.Reciprocating or oscillating to or from alternating rotary
..Including screw and nut
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
89.1 ..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
108 ...Flexible connections
109 ..Rack and pinion
99 A ..Inclined ramp
110 .Reciprocating to reciprocating
111 MECHANICAL MOVEMENTS (INTERMITTENT GRIP TYPE)
112 .Rotary to intermittent unidirectional motion
113 ..Automatically controlled
114 ...Speed
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 intermittent unidirectional motion
127 ..Screw and nut devices
128 ..Slide actuator
129 ...Multiple acting
130 ..Rack actuator
131 ...Multiple acting
132 ....Inwardly facing racks
133 ...Oscillating
134 ....Multiple acting
135 .....Inwardly facing racks
..Strap actuator
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
625 ALTERNATE MANUAL OR POWER OPERATORS
640 GEARING
650 .Nonplanetary gearing differential type (e.g., gearless differentials)

GEARING

655 .Single gearing unit includes fluid drive
661 .Plural prime movers selectively coupled to common output
664 .Plural power paths from prime mover
665 R .Plural power paths to and/or from gearing
670 ..Alternate input connections single hand crank
718 ..Fluid drive divides or combines alternate paths
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
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
...Single spur gear
348 ....Tumbler and cone
349 .....Multiple 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
..Slidable keys or clutches
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
...Single clutch shaft
....Progressive
362 .....Multiple key
363 ......Spur
364 ....Fluid operated
365 ....Electrically operated
366 .....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 .Pivotally supported
381 ..Windmill turntable
383 ..Screw
384 ..Spur
385 ..Bevel
386 ...Wheel type

GEARING
.Pivotally supported
..Bevel
387 ...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
398 ...Automatic control
399 ....Parallel shafts
400 ..Fixed axes
401 ...Parallel shafts
402 ...Automatic control
403 ....Parallel shafts
404 .Reversing means
404.5 ..Governor control
405 .Disconnecting means
406 .Displaceable elements
409 .Backlash take-up
410 .Pressure distributing
411 .Yieldability in gear trains
411.5 .With brake means for gearing
412 R .Directly cooperating gears
413 ..Parallel axes or shafts
414 ...External type
415 ....Pin teeth
416 ..Intersecting axes
417 ...Bevel gear type
422 ..Rack and pinion
420 ..Spur and bevel
421 R ..Spur
421 A ...Motor and gearing
423 ..Bevel
424 ...Motor vehicle drive
424.5 ..Spiral
424.71 ...Screw and nut
424.72 ....Plural longitudinally variably spaced nuts
424.73 ....Threadless
424.74 ....Non-linear screw
424.75 ....Thread geometry
424.76 .....Thread pitch varies over axial length
424.77 .....Shaft thread is spirally wound wire
424.78 ....Nut disengageable from screw
424.79 .....Nut segments hinged parallel to shaft (e.g., clam shell-type, etc.)
424.81 ....Rolling element engaging thread
424.82 .....Recirculating rolling elements
424.83 .....Plural independent recirculating element paths
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
424.88 .....Interconnected or cooperating rollers or roller structure
424.89 .....Non-recirculating rolling elements
424.9 .....Captured sphere
424.91 .....Cylindrical or quasi-cylindrical roller element (e.g., inclined roller, etc.)
424.92 .....Parallel to shaft
424.93 .....Perpendicular to shaft
424.94 ....Less than 360 degrees of contact between nut and screw
424.95 .....Independent nut segments
424.96 .....Integral deformable tangs engaging screw
424.6 ...Driven rack or shaft
424.7 ...Screw
425 ...Worm
425.5 ....Variable speed
426 ....Intermittent motion
427 ....Distribution of pressure
412 TA ..Torque actuated safety devices
431 .Gear and rotary bodies
432 ..Laterally-spaced wheels
433 ..Radially-spaced wheels
* 433.5 ..With flywheel
434 .Rotary bodies
435 ..Mutilated
436 ..Geneva
437 ..Irregular teeth and bodies
438 ..External and internal teeth
439 ..Sectional
440 ...Backlash take-up
441 ....Screw and nut
443 ...Sound deadening
444 ...Differential disks
445 ...Multiple disks
446 ...Separate rim
447 ....Detachable
448 ...Segmental rim
449 ...Sheet metal
450 ...Diametrically split
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
473.14 ....Transmission controlled by flexible cable

CONTROL LEVER AND LINKAGE SYSTEMS
.Multiple controlled elements
..Transmission control
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
479.01 .Multiple controlling elements for single controlled element
480 R ..Interconnected
481 ...Hand and foot
482 ....Accelerator
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
487 ....Flexible
488 ....Handle bar type
489 .....Flexible 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
490.06 ....Wrist
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
490.15 ....Pair of levers
491 .Hand operated
492 ..Steering posts
493 ...Adjustable
494 ...Auxiliary operators
495 ...Position controllers
496 ...Motion translating mechanism
497 ....Cam type
498 ....Gear type
499 .....Screw and nut
500 .....Worm
500.5 ..Flexible transmitter (e.g., Bowden cable)
501.5 R ...Constant tension sustaining
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
.Elements
519 ..Levers
520 ...Toggle
521 ....Lazy tongs

CONTROL LEVER AND LINKAGE SYSTEMS
.Elements
..Levers
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
550 ....Engine starter type
551 .....Holders
551.1 ...Handle bars
551.2 ....Spring biased or supported
551.3 ....Folding or adjustable
551.4 .....Sectional
551.5 ......Simultaneously movable
551.6 .....Continuous
551.7 ......With handle latch
551.8 ....Attachments and accessories
551.9 ....Handholds and grips
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

ELEMENTS
567 .Cams
568 R ..Adjustable
568 FS ...Flexible strip
568 M ...Memory devices
568 T ...Timer devices
569 ..Follower
* 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
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

	ELEMENTS
	.Cranks and pedals
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 COLLECTION
	**********
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

CLASS 464 ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

MAY 2005

CLASS 464 ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

MAY 2005

TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
.Coil spring
..Plural
...Perpendicular to shaft
....Between axially spaced plates
* 68.9 .....Spring detail
* 68.91 .....Non-coiled or non-metallic
* 68.92 .....With particular seat
* 63.1 ....And springs' centerlines spaced along shaft axis
* 67.1 ....Along curved centerline
* 65.1 ...Parallel to shaft
69 .Plural flexible links connected to circumferentially spaced axially directed pins on drive and driven members
70 .Element is annular liner within radially spaced pin-receiving opening
71 ..Axially directed pin
72 ...Plural axially spaced liners
73 .Element positioned between intermeshing teeth on driving and driven members
74 ..Teeth on radially overlapping surfaces
75 ...Element is a continuous annulus extending around rotational axis
76 ..Plurality of disparate elements
77 .Element is an open loop spring curved about rotational axis
78 .Element is tube with slot through wall to provide flexibility
79 .Element includes diverging wall portions defining annular groove completely surrounding rotational axis (e.g., bellows)
80 ..Nonmetallic
81 .Plural circumferentially spaced elements
82 ..Extending between radially overlapping surfaces on driving and driven members
83 ...Nonmetallic
84 ..Elements are bowed leaf springs
85 ..Nonmetallic
86 ..Axially extending torsion bars
87 .Nonmetallic element
88 ..Element is hollow sleeve surrounding rotational axis and connected at opposite ends to axially spaced torque transmitting surfaces on driving and driven members
89 ..Extending between radially overlapping surfaces on driving and driven members
90 ...Plural elements radially overlapping
91 ...Plural elements axially spaced along rotational axis
92 ..Annular element between and coincident with drive and driven members
93 ...Including means to receive radially spaced axially extending projection on drive and driven members
94 ....Laminated element or plural elements abutting or spaced along rotational axis
95 .....With disparate spacer between plural separable elements
96 ...Laminated element or plural elements abutting or spaced along axis of rotation
97 .Element is a torsion bar having a longitudinal axis coincident with the rotational axis
98 .Element is plate with external edge completely surrounding rotational axis (e.g., disc)
99 ..Plural axially spaced plates
100 .Element is leaf spring
101 ..Bowed
102 SEPARATE COUPLING DEVICE MOVABLE RADIALLY OF AXES OF TORQUE TRANSMITTING MEMBERS TO ACCOMMODATE PARALLEL, MISALIGNED AXES (E.G., OLDHAM COUPLING)
103 .Coupling device includes rolling body for transmitting torque
104 .Coupling device has aperture or groove for receiving complemenatry driving projection on torque transmitting members
105 ..Projection-receiving slot extends completely through thickness dimension of coupler
106 COUPLING ACCOMMODATES DRIVE BETWEEN MEMBERS HAVING MISALIGNED OR ANGULARLY RELATED AXES
107 .Coupling between wheel and vertically oriented shaft (e.g., millstone)
108 ..Wheel mounted on rolling body
109 .Coupling includes relatively movable gear segments
110 .Coupling transmits torque via semicylindrical segments separated by pivot pin (e.g., slipper bearing)
111 .Tripod coupling
112 .Coupling transmits torque via radially directed pin
113 ..With additional axially spaced torque-transmitting coupling which facilitates relative movement between members
114 ...Radially directed pin in each coupling
115 ....Pin slidable axially in slot
116 .....Axially spaced pin-carrying parts interconnected by pivotal head and socket centering joint
117 ....Plural pins in each coupling with pin ends spaced 90 degrees apart
118 .....Axially spaced pin-carrying parts interconnected by pivotal head and socket centering joint
119 ....Pins in sequential couplings oriented at right angles to each other
120 ..Pin slidable axially in slot

CLASS 464 ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

MAY 2005

COUPLING ACCOMMODATES DRIVE BETWEEN MEMBERS HAVING MISALIGNED OR ANGULARLY RELATED AXES
.Coupling transmits torque via radially directed pin
..Pin slidable axially in slot
121 ...Pin carried by intermediate element and slidable axially in slots in both coupled members
122 ...Pin carries disparate sleeve engaged with slot walls
123 ....Sleeve rotatable about pin axis
124 .....Sleeve has spherical or semi-spherical bearing surface
125 ..Plural pins received in conforming apertures in ring
126 ...Split ring
127 ..With particular balancing means
128 ..With particular bearing cup surrounding pin end
129 ...Spherical or semi-spherical cup
130 ...And disparate device for securing cup to pin or receiver
131 ...And flexible seal
132 ..With particular bearing or bushing mounted on pin
133 ..With particular flexible seal
134 ..With particular yoke providing pin-receiving aperture
135 ...Split yoke
136 ..Plural pins carried by intermediate member with pin ends spaced 90 degrees apart
137 .Coupling transmits torque via axially directed pin radially spaced from rotational axis
138 ..Particular pivotal mounting for pin
139 .Coupling transmits torque via radially spaced ball
140 ..With additional axially spaced torque-transmitting coupling which facilitates relative movement between members
141 ..Ball mounted in groove for relative axial movement with respect to coupled member
142 ...Mounted for relative axial movement with respect to both coupled members
143 ....Grooves formed in radially overlapping elements
144 .....Intersecting grooves
145 .....With intermediate positioning cage for ball
146 ......Bottom wall of groove in outer member is parallel to axial centerline of outer member (e.g., internally grooved cylinder)
147 .Torque transmitted via intermediate element
148 ..Element carries or receives hook on opposite ends for connection to drive and driven members (e.g., link chain)
149 ..Axially intermeshing teeth
150 ..Intermediate element located between overlapping surfaces on drive and driven members
151 ...Intermediate element is externally grooved or ribbed sphere
152 ...Plural circumferentially spaced intermediate elements
153 ..Intermediate element includes internal openings at opposite ends for receiving axially spaced ends on drive and driven members
154 ...Intermeshing teeth on element and members
155 ..Intermediate element includes external surface at opposite ends received in complementary openings in axially spaced ends of driving and driven members driven members
156 ...Intermeshing teeth on element and members
157 .Torque transmitted via intermeshing teeth on drive and driven members
158 ..Teeth on radially overlapping surfaces
159 ...Spherical or semispherical surfaces
160 COUPLING FACILITATES RELATIVE ROTARY DISPLACEMENT BETWEEN COUPLED MEMBERS
161 .Members coupled via axially movable, resiliently biased intermediate element
162 COUPLING FACILITATES RELATIVE AXIAL MOTION BETWEEN COUPLED MEMBERS
163 .Coupling between rotary drive table and axially movable drill string
164 ..Coupler includes endless belt or chain run engageable with drill string and moveable in direction of axial advance
165 ..Coupler includes antifriction rolling body engageable with drill string
166 ...With screw device for adjusting radial position of rolling body
167 .Coupler includes antifriction rolling body engageable with axially moveable member
168 ..Recirculating rolling bodies
169 .Including spring to bias member in axial direction
170 HOUSING
171 .Rigid semispherical surface on one housing part slidably engaged with surface on mating housing part
172 .Telescoping cylindrical housing members
173 .Flexible housing
174 ..Helically coiled member
175 ..Corrugated structure
176 .Pivotally mounted housing supported for movement between open and closed positions

CLASS 464 ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

MAY 2005

HOUSING
177 .Separably connected housings for separably connected shafts
178 .With rolling body supporting shaft in housing
179 SHAFTING
180 .Particular vibration dampening or balancing structure
181 .Nonmetalic shaft or component
182 .With disparate device for coupling shaft to additional shaft or rotary body
183 .Hollow or layered shaft
184 GUDGEONS
185 MISCELLANEOUS
****
CROSS-REFERENCE ART COLLECTIONS
****
900 ELECTRICALLY INSULATIVE MEMBER
901 RAPID ATTACHMENT OR RELEASE
902 PARTICULAR MATERIAL
903 .Nonmetal
904 HOMOKINETIC COUPLING
905 .Torque transmitted via radially extending pin
906 .Torque transmitted via radially spaced balls
****
FOREIGN ART COLLECTION
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FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

CLASS 588 HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT

MAY 2005

1 DESTRUCTION OR CONTAINMENT OF RADIOACTIVE WASTE
2 .By fixation in stable solid media
3 ..Cement, concrete, or hydraulic setting
4 ...With additional solid material to enhance fixation of radioactivity
5 ..Bituminous
6 ..Resin or polymer; e.g., cellulose, polyethylene
7 ...Ion exchange resin
8 ...Polymer derived from ethylenically unsaturated monomer
9 ..Clay or claylike
10 ..Ceramic or ceramiclike
11 ...Glass, glasslike, vitreous
12 ....Boron containing
13 ..Ion exchange material
14 ..Silicon containing
15 ..Metal containing
16 .Surrounding with specified material or structure
17 .Geological or extraterrestrial
18 .Chemical conversion to a stable solid for disposal
19 ..Incineration, calcination, pyrolyzing to obtain solid residue
20 .Treating radioactive liquid
299 GERM WARFARE AGENTS DESTROYED

NOTE: SUBCLASSES 300 TRHROUGH 321 FORM PART OF A MULTIPLE ASPECT SCHEDULE. DOCUMENTS CLASSIFIED IN ONE OF THESE SUBCLASSES ARE NORMALLY ALSO CLASSIFIED IN SUBCLASSES 400 THROUGH 415 TO IDENTIFY THE HAZARDOUS MATERIAL.

300 PROCESSES FOR MAKING HARMFUL CHEMICAL SUBSTANCES HARMLESS, OR LESS HARMFUL, BY EFFECTING A CHEMICAL CHANGE IN THE SUBSTANCES (EPO/ JPO)
301 .By subjecting to electric or wave energy or particle or ionizing radiation (EPO/ JPO)
302 ..Electrochemical processes, e.g., electrodialysis (EPO/JPO)
303 ...Electrolytic degradation or conversion (EPO/JPO)
304 ..Sonic energy (EPO/JPO)
305 ..Particle radiation, e.g., electron beam radiation (EPO/JPO)
306 ..Electromagnetic radiation, e.g., laser (EPO/ JPO)
307 ...Gamma rays (about 0.003nm-0.03nm) (EPO/JPO)
308 ...X-rays (about 0.03mn-3nm) (EPO/JPO)
309 ...Ultraviolet radiations (about 3nm-400nm) (EPO/JPO)
310 ...Microwave radiations (about 0.3cm-30cm) (EPO/JPO)
311 ..Plasma (EPO/JPO)
312 .By hydropyrolysis or destructive steam gasification, e.g., using water and heat or supercritical water, to effect chemical change (EPO/JPO)
313 .By reacting with chemical agents (EPO/JPO)
314 ..By treatment in molten chemical reagent, e.g., salts or metals (EPO/JPO)
315 ..By chemical fixing the harmful substance, e.g., by chelation or complexation (EPO/JPO)
316 ..Dehalogenation using reactive chemical agents able to degrade (EPO/JPO)
317 ..By hydrolysis (EPO/JPO)
318 ..Detoxification by using acid or alkaline reagents (EPO/JPO)
319 ..By reduction, e.g., hydrogenation (EPO/JPO)
320 ..By oxidation; by combustion (EPO/JPO)
321 .By heating to effect chemical change. e.g., pyrolysis (EPO/JPO)

NOTE: SUBCLASSES 401 THROUGH 404 FORM PART OF A MULTIPLE ASPECT SCHEDULE. DOCUMENTS CLASSIFIED IN ONE OF THESE SUBCLASSES ARE NORMALLY ALSO CLASSIFIED IN SUBCLASSES 405 THROUGH 415 TO IDENTIFY THE HAZARDOUS MATERIAL.

400 .Harmful chemical substances made harmless, or less harmful, by effecting chemical change (EPO/JPO)
401 ..Chemical warfare substances, e.g., cholinesterase inhibitor (EPO/JPO)
402 ..Pesticides, e.g., insecticides, herbicides, fungicides, nematicides (EPO/JPO)
403 ..Explosives, propellants or pyrotechnics, e.g., rocket fuel, napalm (EPO/JPO)
404 ..Toxic combustion residues, e.g., toxic substances contained in fly ash from waste incineration (EPO/JPO)
405 ..Organic substances (EPO/JPO)
406 ...Containing halogen (EPO/JPO)
407 ...Containing heavy metals (EPO/JPO)
408 ...Containing nitrogen or phosphorus (EPO/JPO)
409 ...Containing oxygen, sulfur, selenium or tellurium, i.e., chalcogen (EPO/JPO)
410 ..Inorganic substances (EPO/JPO)
411 ...Inorganic fibers, e.g., asbestos (EPO/JPO)
412 ...Containing heavy metals, in the bonded or free state (EPO/JPO)
413 ...Containing nitrogen phosphorus (EPO/JPO)
414 ...Containing oxygen, sulfur, selenium or tellurium, i.e., chalcogen (EPO/JPO)
415 ...Containing halogen (EPO/JPO)
249 CONTAINMENT

CONTAINMENT

249.5 .Chemical or germ warfare agents, or pathogenic organisms (e.g., sarin, VX, anthrax, virus, bacteria and medical waste, etc.)

250 .Geologic, marine, or extraterrestrial storage and containment (e.g., tectonic, volcanic, deep natural, manmade earth cavity, submarine placement sites, lunar, earth orbital, and solar placement, etc.)

251 .Treating a solid (e.g., clay, slag, spent sorbent, active carbon, etc.) to prevent gas emissions

252 .Solidification, vitrification, or cementation

253 ..In situ vitrification

254 ..Contains asbestos

255 ..Polymer or resin containing (e.g., foam, etc.)

256 ..Waste contains heavy metal (e.g., fly, ash, flue dust, and incinerator ash)

257 ...And confined in a cement type material (e.g., concrete)

259 .Secondary containment

260 .With sensing, detecting, or monitoring

261 MISCELLANEOUS

****

CROSS-REFERENCE ART COLLECTIONS

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900 APPARATUS

901 COMPOSITIONS

****

FOREIGN ART COLLECTION

****

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
100/280	1	74/572	290	
112/283	1	74/573 R	293	
116/144	1	74/572	290	
123/192.1	1	74/574	648	
123/192.2	1	74/574	648	
160/310	1	74/573 F	41	
175/320	2	74/574	648	
175/325.2	1	74/574	648	
188/189	1	74/570	84	
188/378	2	74/574	648	
192/104 B	1	74/572	290	
192/110 R	1	74/572	290	
192/111 A	1	74/572	290	
192/12 R	1	74/572	290	
192/13 R	1	74/572	290	
192/15	1	74/572	290	
192/20	1	74/570	84	
	1	74/572	290	
192/210.1	1	74/572	290	
192/213.21	1	74/574	648	
192/213.3	2	74/574	648	
192/24	1	74/570	84	
192/3.28	1	74/574	648	
192/3.33	1	74/574	648	
192/30 R	3	74/572	290	
	7	74/574	648	
192/31	1	74/572	290	
192/41 R	2	74/574	648	
192/48.1	1	74/573 R	293	
192/55.1	2	74/574	648	
192/55.2	1	74/574	648	
192/66.1	1	74/572	290	
	1	74/574	648	
192/70.17	1	74/574	648	
192/70.25	1	74/572	290	
192/84.92	1	74/574	648	
192/89.2	1	74/574	648	
242/349	1	74/574	648	
242/354	3	74/572	290	
244/53 R	2	74/574	648	
244/62	1	74/574	648	
248/559	2	74/574	648	
248/562	1	74/573 R	293	
248/605	1	74/574	648	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
248/632	1	74/574	648	
301/1	1	74/571 L	70	
301/124.1	1	464/62	43	
301/5.21	1	74/573 R	293	
301/5.22	1	74/573 F	41	
310/156.74	1	74/574	648	
310/261	1	74/573 R	293	
310/326	1	74/574	648	
310/74	1	74/574	648	
318/41	1	74/572	290	
322/40	1	74/573 R	293	
352/26	1	74/572	290	
368/171	12	74/573 R	293	
384/292	1	74/570	84	
403/337	1	74/572	290	
403/338	1	74/572	290	
403/359.4	1	74/572	290	
408/23	1	74/570	84	
416/106	1	74/574	648	
416/135	2	74/574	648	
416/144	1	74/573 F	41	
	5	74/573 R	293	
416/145	1	74/573 R	293	
417/521	1	74/570	84	
417/533	1	74/572	290	
440/52	2	74/574	648	
440/83	2	74/574	648	
451/343	1	74/573 F	41	
454/162	1	74/574	648	
464/179	1	74/572	290	
464/180	5	74/572	290	
	9	74/573 F	41	
	27	74/574	648	
	30	74/573 R	293	
464/183	1	74/573 R	293	
464/24	1	74/574	648	
464/51	1	74/573 R	293	
464/61.1	1	74/574	648	
	23	464/61	23	
464/62.1	1	464/64	44	
	39	464/62	43	
464/63.1	1	464/68	227	
	4	74/574	648	
	8	464/63	45	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
464/63.1	13	464/67	60	
464/64.1	1	464/63	45	
	2	464/68	227	
	2	74/574	648	
	43	464/64	44	
464/65.1	1	464/66	77	
	3	464/63	45	
	14	74/574	648	
	30	464/65	31	
464/66.1	1	464/62	43	
	1	74/573 R	293	
	3	74/574	648	
	60	464/66	77	
464/67.1	1	464/66	77	
	1	74/574	648	
	3	464/68	227	
	26	464/63	45	
	39	464/67	60	
464/68.1	1	464/66	77	
	1	74/572	290	
	1	74/573 R	293	
	10	74/574	648	
	14	464/68	227	
464/68.2	1	464/65	31	
	1	74/573 R	293	
	3	464/66	77	
	4	464/68	227	
	6	74/574	648	
464/68.3	1	74/572	290	
	3	464/67	60	
	11	74/573 F	41	
	19	464/68	227	
	38	74/574	648	
464/68.4	1	464/63	45	
	1	464/66	77	
	1	464/67	60	
	1	74/573 R	293	
	13	74/574	648	
	28	464/68	227	
464/68.41	1	74/573 F	41	
	2	74/572	290	
	4	464/63	45	
	4	464/66	77	
	24	74/574	648	

SOURCE CLASSIFICATION(S) OF PATENTS
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PROJECT: M5141

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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
464/68.41	74	464/68	227	
464/68.5	1	464/63	45	
	2	74/572	290	
	8	464/68	227	
	10	74/574	648	
464/68.6	1	464/66	77	
	5	464/68	227	
464/68.7	1	464/63	45	
	2	464/68	227	
	2	74/574	648	
464/68.8	1	464/62	43	
	3	74/574	648	
	10	464/68	227	
464/68.9	1	464/67	60	
	2	464/66	77	
	6	464/68	227	
464/68.91	1	74/572	290	
	1	74/573 R	293	
	6	74/574	648	
	10	464/68	227	
464/68.92	1	74/572	290	
	3	464/66	77	
	3	464/67	60	
	9	74/574	648	
	41	464/68	227	
464/82	1	74/574	648	
464/87	1	74/573 R	293	
464/98	2	74/572	290	
473/112	1	74/572	290	
474/148	1	74/572	290	
474/152	1	464/90	1	
	1	74/574	648	
474/166	2	74/570	84	
	3	74/574	648	
474/168	1	74/574	648	
474/174	1	74/572	290	
474/197	1	74/574	648	
474/2	1	74/574	648	
474/237	1	74/574	648	
474/94	1	464/62	43	
474/97	2	74/573 R	293	
475/266	1	74/572	290	
475/267	1	74/574	648	
476/27	1	74/572	290	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
482/57	1	74/572	290	
482/63	1	74/572	290	
482/64	1	74/572	290	
494/50	1	74/573 R	293	
494/82	4	74/573 R	293	
494/84	1	74/572	290	
60/638	1	74/574	648	
62/323.1	1	74/570	84	
68/23.1	1	74/573 F	41	
	1	74/573 R	293	
	1	74/574	648	
74/3	1	74/572	290	
74/40	1	74/572	290	
74/433.5	4	74/573 R	293	
	12	74/574	648	
	16	74/572	290	
74/434	1	74/573 R	293	
74/44	2	74/570	84	
74/5.5	1	74/573 R	293	
74/5.95	1	74/572	290	
74/502.6	1	74/570	84	
74/570.1	1	74/574	648	
	7	74/572	290	
	9	74/571 R	155	
	22	74/570	84	
	30	74/573 R	293	
74/570.2	1	74/570	84	
	5	74/573 F	41	
	5	74/574	648	
	8	74/572	290	
	11	74/571 R	155	
	15	74/571 L	70	
	17	74/571 M	65	
	49	74/573 R	293	
74/570.21	1	74/570	84	
	3	74/574	648	
	4	74/573 R	293	
	6	74/571 L	70	
	21	74/571 M	65	
	26	74/571 R	155	
74/570.3	1	74/571 L	70	
	1	74/573 R	293	
	4	74/571 R	155	
	37	74/570	84	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
74/571.1	1	74/574	648	
	4	74/572	290	
	26	74/571 M	65	
	36	74/573 R	293	
	57	74/571 R	155	
74/571.11	1	74/571 M	65	
	2	74/574	648	
	4	74/570	84	
	9	74/572	290	
	26	74/573 R	293	
	47	74/571 L	70	
	47	74/571 R	155	
74/572.1	1	74/573 R	293	
	30	74/572	290	
74/572.11	3	74/573 R	293	
	28	74/572	290	
74/572.12	1	74/571 R	155	
	1	74/574	648	
	43	74/572	290	
74/572.2	3	74/574	648	
	4	74/573 R	293	
	13	74/572	290	
74/572.21	3	74/573 R	293	
	3	74/574	648	
	50	74/572	290	
74/572.4	1	74/570	84	
	3	74/573 F	41	
	4	74/572	290	
	33	74/573 R	293	
74/573.1	3	74/573 F	41	
	4	74/573 R	293	
	5	74/572	290	
	29	74/574	648	
74/573.11	2	74/573 F	41	
	3	74/572	290	
	4	74/573 R	293	
	17	74/574	648	
74/573.12	2	74/573 F	41	
	29	74/574	648	
74/573.13	7	74/574	648	
74/574.1	1	74/573 R	293	
	7	74/574	648	
74/574.2	3	74/572	290	
	6	74/573 R	293	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: M5141

Generated by: Data Control Division

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
74/574.2	126	74/574	648	
74/574.3	5	74/572	290	
	7	74/573 R	293	
	64	74/574	648	
74/574.4	5	74/573 R	293	
	9	74/572	290	
	105	74/574	648	
74/591	1	74/570	84	
74/64	1	74/570	84	
74/835	1	74/570	84	
74/836	1	74/570	84	
92/13.3	1	74/570	84	
92/23	1	74/570	84	

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	464/61	23	464/61.1	23
	464/62	43	301/124.1	1
			464/62.1	39
			464/66.1	1
			474/94	1
			464/68.8	1
	464/63	45	464/63.1	8
			464/68.41	4
			464/68.7	1
			464/65.1	3
			464/67.1	26
			464/68.5	1
			464/68.4	1
			464/64.1	1
	464/64	44	464/62.1	1
			464/64.1	43
	464/65	31	464/65.1	30
			464/68.2	1
	464/66	77	464/65.1	1
			464/68.1	1
			464/68.4	1
			464/68.9	2
			464/68.92	3
			464/68.41	4
			464/68.6	1
			464/68.2	3
			464/66.1	60
			464/67.1	1
	464/67	60	464/63.1	13
			464/68.92	3
			464/68.9	1
			464/67.1	39
			464/68.4	1
			464/68.3	3
	464/68	227	464/63.1	1
			464/68.1	14
			464/68.3	19
			464/68.5	8
			464/68.7	2
			464/68.9	6
			464/68.91	10
			464/68.92	41
			464/68.41	74
			464/68.8	10
			464/68.6	5
			464/68.4	28

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	464/68	227	464/68.2	4
			464/64.1	2
			464/67.1	3
	464/90	1	474/152	1
	74/570	84	62/323.1	1
			74/44	2
			74/64	1
			74/591	1
			74/835	1
			74/836	1
			74/502.6	1
			74/570.1	22
			74/570.2	1
			74/570.3	37
			74/572.4	1
			74/570.21	1
			74/571.11	4
			92/23	1
			92/13.3	1
			188/189	1
			192/20	1
			192/24	1
			384/292	1
			408/23	1
			417/521	1
			474/166	2
	74/571 L	70	74/570.2	15
			74/570.3	1
			74/570.21	6
			74/571.11	47
			301/1	1
	74/571 M	65	74/570.2	17
			74/571.1	26
			74/570.21	21
			74/571.11	1
	74/571 R	155	74/570.1	9
			74/570.2	11
			74/570.3	4
			74/571.1	57
			74/570.21	26
			74/571.11	47
			74/572.12	1
	74/572	290	74/3	1
			74/40	1
			74/5.95	1
			74/433.5	16

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	74/572	290	74/570.1	7
			74/570.2	8
			74/571.1	4
			74/572.1	30
			74/572.2	13
			74/572.4	4
			74/573.1	5
			74/574.2	3
			74/574.3	5
			74/574.4	9
			74/571.11	9
			74/572.11	28
			74/572.12	43
			74/572.21	50
			74/573.11	3
			100/280	1
			116/144	1
			192/12 R	1
			192/13 R	1
			192/15	1
			192/20	1
			192/30 R	3
			192/31	1
			192/104 B	1
			192/110 R	1
			192/111 A	1
			192/66.1	1
			192/210.1	1
			192/70.25	1
			242/354	3
			318/41	1
			352/26	1
			403/337	1
			403/338	1
			403/359.4	1
			417/533	1
			464/98	2
			464/179	1
			464/180	5
			464/68.1	1
			464/68.3	1
			464/68.5	2
			464/68.41	2
			464/68.91	1
			464/68.92	1
			473/112	1

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	74/572	290	474/148	1
			474/174	1
			475/266	1
			476/27	1
			482/57	1
			482/63	1
			482/64	1
			494/84	1
	74/573 F	41	68/23.1	1
			74/570.2	5
			74/572.4	3
			74/573.1	3
			74/573.11	2
			74/573.12	2
			160/310	1
			301/5.22	1
			416/144	1
			451/343	1
			464/180	9
			464/68.3	11
			464/68.41	1
	74/573 R	293	68/23.1	1
			74/434	1
			74/5.5	1
			74/433.5	4
			74/570.1	30
			74/570.2	49
			74/570.3	1
			74/571.1	36
			74/572.1	1
			74/572.2	4
			74/572.4	33
			74/573.1	4
			74/574.1	1
			74/574.2	6
			74/574.3	7
			74/574.4	5
			74/570.21	4
			74/571.11	26
			74/572.11	3
			74/572.21	3
			74/573.11	4
			112/283	1
			192/48.1	1
			248/562	1
			301/5.21	1

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	74/573 R	293	310/261	1
			322/40	1
			368/171	12
			416/144	5
			416/145	1
			464/51	1
			464/87	1
			464/180	30
			464/183	1
			464/66.1	1
			464/68.1	1
			464/68.2	1
			464/68.4	1
			464/68.91	1
			474/97	2
			494/50	1
			494/82	4
	74/574	648	60/638	1
			68/23.1	1
			74/433.5	12
			74/570.1	1
			74/570.2	5
			74/571.1	1
			74/572.2	3
			74/573.1	29
			74/574.1	7
			74/574.2	126
			74/574.3	64
			74/574.4	105
			74/570.21	3
			74/571.11	2
			74/572.12	1
			74/572.21	3
			74/573.11	17
			74/573.12	29
			74/573.13	7
			123/192.1	1
			123/192.2	1
			175/320	2
			175/325.2	1
			188/378	2
			192/30 R	7
			192/41 R	2
			192/3.28	1
			192/3.33	1
			192/55.1	2

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	74/574	648	192/55.2	1
			192/66.1	1
			192/89.2	1
			192/213.3	2
			192/70.17	1
			192/84.92	1
			192/213.21	1
			242/349	1
			244/53 R	2
			244/62	1
			248/559	2
			248/605	1
			248/632	1
			310/74	1
			310/326	1
			310/156.74	1
			416/106	1
			416/135	2
			440/52	2
			440/83	2
			454/162	1
			464/24	1
			464/82	1
			464/180	27
			464/61.1	1
			464/63.1	4
			464/64.1	2
			464/65.1	14
			464/66.1	3
			464/67.1	1
			464/68.1	10
			464/68.2	6
			464/68.3	38
			464/68.4	13
			464/68.5	10
			464/68.7	2
			464/68.8	3
			464/68.41	24
			464/68.91	6
			464/68.92	9
			474/2	1
			474/152	1
			474/166	3
			474/168	1
			474/197	1
			474/237	1

Generated by: Data Control Division

Comments	Source Classification	Number Of ORs	New Classification	Number Of ORs
	74/574	648	475/267	1

C. CHANGES TO THE U.S. – I. P. C. CONCORDANCE

U. S.		I. P. C.	
Class	Subclass	Subclass	Notation
74	5.95	F16C	15/00
	433.5	F16H	33/02
	570.1	F16F	15/22
	570.2	F16F	15/22
	570.21	F16F	15/22
	570.3	F16F	15/22
	571.1	F16F	15/22
	571.11	F16F	15/22
	572.1	H02K	7/02
	572.11	H02K	7/02
	572.12	H02K	7/02
	572.2	F16C	15/00
	572.21	F16F	15/315
	572.4	F16F	15/32
	573.1	F16F	15/16
	573.11	F16F	15/16
	573.12	F16F	15/16
	573.13	F16F	15/16
	574.1	F16F	15/30
	574.2	F16F	15/14
	574.3	F16F	15/12
	574.4	F16F	15/12
464	61.1	F16F	15/121
	62.1	F16F	15/121
	63.1	F16F	15/121
	64.1	F16F	15/121
	65.1	F16F	15/121
	66.1	F16F	15/121
	67.1	F16F	15/121
	68.1	F16F	15/121
	68.2	F16F	15/121
	68.3	F16F	15/121
	68.4	F16F	15/129
	68.41	F16F	15/129
	68.5	F16F	15/121
	68.6	F16F	15/121
	68.7	F16F	15/121
	68.8	F16F	15/121
	68.9	F16F	15/121
	68.91	F16F	15/121
	68.92	F16F	15/121

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 16 – MISCELLANEOUS HARDWARE

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 404: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for a weight, a rotor, or flywheel.

Insert:

74, Machine Element or Mechanism, subclass 572.2 for a flywheel.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 29 – METAL WORKING

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 894: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for flywheel and rotor structure.

Insert:

74, Machine Element or Mechanism, subclass 572.21 for flywheel structure.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 54 – HARNESS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Class Title: The class title:

Delete:

HARNESS

Insert:

HARNESS FOR WORKING ANIMAL

Class 54 Title Changes in External Classes: Change Class 54 Title as indicated in the external classes below:

Delete the old title for Class 54:

HARNESS

Insert the following new title for Class 54:

HARNESS FOR WORKING ANIMAL

List of Classes and See or Search Class References with Class 54 Title Changes:

Class 2 (Class 54 title changes in See or Search Class (SC) locations below:

40, 171/SC 54
40, 209.3/SC 54

Class 24 (Class 54 title changes in See or Search Class (SC) locations below:

24, 19/SC 54
24, 68/SC 54
24, 164/SC 54
24, 165/SC 54
24, 182/SC 54
24, 183/SC 54
24, 598.4/SC 54
24, 698.1/SC 54

Class 33 (Class 54 title changes in See or Search Class (SC) locations below:)

33, 511/SC 54

Class 43 (Class 54 title changes in See or Search Class (SC) locations below:)

43, 8/SC 54

Class 53 (Class 54 title changes in See or Search Class (SC) locations below:)

53, Class Definition References to Other Classes/SC 54

Class 59 (Class 54 title changes in See or Search Class (SC) locations below:)

59, 85/SC 54
59, 93/SC 54

Class 112 (Class 54 title changes in See or Search Class (SC) locations below:)

112, 400/SC 54

Class 119 (Class 54 title changes in See or Search Class (SC) locations below:)

119, Class Definition References to Other Classes/SC 54 (two occurrences)
119, 14.12/SC 54
119, 702/SC 54
119, 712/SC 54
119, 769/SC 54
119, 772/SC 54
119, 776/SC 54
119, 783/SC 54
119, 795/SC 54
119, 809/SC 54
119, 810/SC 54
119, 816/SC 54
119, 819/SC 54
119, 833/SC 54
119, 836/SC 54
119, 850/SC 54
119, 856/SC 54
119, 905/SC 54
119, 907/SC 54

Class 135 (Class 54 title changes in See or Search Class (SC) locations below:)

135, 88.01/SC 54

Class 168 (Class 54 title changes in See or Search Class (SC) locations below:)

168, 1/SC 54
168, 2/SC 54
168, 3/SC 54
168, 18/SC 54
168, 25/SC 54

Class 182 (Class 54 title changes in See or Search Class (SC) locations below:)

182, 3/SC 54

Class 185 (Class 54 title changes in See or Search Class (SC) locations below:)

185, 20/SC 54
185, 23/SC 54
185, 37/SC 54

Class 248 (Class 54 title changes in See or Search Class (SC) locations below:)

248, Class Definition References to Other Classes/SC 54

Class 254 (Class 54 title changes in See or Search Class (SC) locations below:)

254, 389/SC 54

Class 256 (Class 54 title changes in See or Search Class (SC) locations below:)

256, 39/SC 54

Class 278 (Class 54 title changes in See or Search Class (SC) locations below:)

278, 21/SC 54

Class 280 (Class 54 title changes in See or Search Class (SC) locations below:)

280, 1.5/SC 54

Class 297 (Class 54 title changes in See or Search Class (SC) locations below:)

297, 176/SC 54
297, 195.1/SC 54

Class 403 (Class 54 title changes in See or Search Class (SC) locations below:)

403, Class Definition References to Other Classes/SC 54

Class 434 (Class 54 title changes in See or Search Class (SC) locations below:)

434, Class Definition References to Other Classes/SC 54

Class 482 (Class 54 title changes in See or Search Class (SC) locations below:)

482, 43/SC 54

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 68 – TEXTILES: FLUID TREATING APPARATUS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 12.06: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for miscellaneous rotor structures including those having balancing means.

Insert:

310, Electrical Generator or Motor Structure, subclass 261 for miscellaneous rotor structures including those having balancing means.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 73 – MEASURING AND TESTING

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 66: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for miscellaneous rotor structures including those having balancing means.

Insert:

310, Electrical Generator or Motor Structure, subclass 261 for miscellaneous rotor structures including those having balancing means.

Subclass 514.12: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574, for rotor vibration dampening means of a more general application.

Insert:

74, Machine Element or Mechanism, subclass 573.1 for fluid or fluent material dampening of an inertial element.

Subclass 514.14: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574 for rotor vibration dampening means of a more general application.

Insert:

74, Machine Element or Mechanism, subclass 574.1-.4 for flywheel vibration dampening.

Subclass 526: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574, for rotor vibration dampening means of more general application.

Insert:

74, Machine Element or Mechanism, subclass 574.1-.4 for flywheel vibration dampening.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 74 – MACHINE ELEMENT OR MECHANISM

Definitions Abolished:

Subclasses:

570-574

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 5: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

572+, for rotors, per se.

Under SEE OR SEARCH CLASS:

Insert:

310, Electrical Generator or Motor Structure, subclass 261 for rotors, per se.

Subclass 117: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

571, for adjustable eccentrics.

Insert:

571.1, for adjustable eccentrics.

Subclass 589: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

572+, for flywheels and rotors.

Under SEE OR SEARCH CLASS:

Insert:

310, Electrical Generator or Motor Structure, subclass 153 for flywheels and rotors.

Subclass 591: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

573, for counterbalanced flywheels and rotors.

Under SEE OR SEARCH CLASS:

Insert:

310, Electrical Generator or Motor Structure, subclass 261 for counterbalanced flywheels and rotors.

Subclass 604:

Delete:

SEE OR SEARCH THIS CLASS, SUBCLASS:

574, for vibration damping means for flywheels and rotors.

Under SEE OR SEARCH CLASS:

Insert:

310, Electrical Generator or Motor Structure, subclass 261 for vibration damping means for flywheels and rotors.

Subclass 835: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

571, for features of the adjustable eccentric and strap, per se, and see (1) Note to subclass 828.

Insert:

571.1, for features of the adjustable eccentric and strap, per se, and see (1) Note to subclass 828.

Subclass 836: Under SEE OR SEARCH THIS CLASS, SUBCLASS:

Delete:

571, for features of the adjustable eccentric and strap, per se, and see (1) Note to subclass 828.

Insert:

571.1, for features of the adjustable eccentric and strap, per se, and see (1) Note to subclass 828.

Definitions Established: (Place established subclasses in numerical sequence.):

5.95 Flywheel structure:
Subject matter under subclass 5 including a motion-smoothing component generally made up of a massive disk-like member.

SEE OR SEARCH THIS CLASS, SUBCLASS:

572.2, for motion smoothing flywheel.

433.5 With flywheel:
Subject matter under subclass 431 including a motion-smoothing component generally made up of a massive disk-like member.

SEE OR SEARCH THIS CLASS, SUBCLASS:

572.2, for motion smoothing flywheel.

570.1 Eccentric:
Subject matter under subclass entitled ELEMENTS comprising a mass having a center of gravity offset from geometrical center.

SEE OR SEARCH THIS CLASS, SUBCLASS:

116, for eccentric drives for rotary to intermittent unidirectional movement.

570.2 Plural, movable relative to each other (including ball(s)):
Subject matter under subclass 570.1 having at least two masses that can travel independently.

570.21 Concentric:
Subject matter under subclass 570.2 wherein the plural movable eccentric masses are located one inside the other.

570.3 Having anti-friction means, e.g., roller bearing, lubrication, etc.:
Subject matter under subclass 570.1 wherein the eccentric has structure to facilitate the reduction of resistance generated by two moving parts.

SEE OR SEARCH THIS CLASS, SUBCLASS:

117, for adjustable eccentric drives for rotary to intermittent unidirectional movement.

835, for adjustable eccentric and strap changing a stroke "on the fly".

571.1 Adjustable:
Subject matter under subclass 570.1 wherein the eccentric has structure allowing the mass to change position relative to a fixed datum, e.g., a shaft, etc.

571.11 Radially:
Subject matter under subclass 571.1 wherein the eccentric has structure allowing the mass to change position relative to a radius of a fixed datum, e.g., a shaft radius, etc.

572.1 Power generating-type flywheel:
Subject matter under subclass entitled ELEMENTS comprising a mass used in a system to produce mechanical or electrical energy.

(1) Note. Where additional characteristics are claimed which limit the wheel or other rotor to particular arts, e.g., gears, vehicle wheels, centrifugal separators, turbines, dynamos, etc., the patent will be placed with the appropriate art and cross referenced here, but the mere designation of the device by name will not exclude the same from this subclass or the indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

5, for gyroscopes.

SEE OR SEARCH CLASS:

123, Internal-Combustion Engines, subclass 179.22 for mechanical starting devices.

310, Electrical Generator or Motor Structure, subclass 74 for rotary dynamo-electric devices having a flywheel, and subclass 153 for magnetos built into a flywheel.

322, Electricity: Single Generator Systems, subclass 4 for generator systems where the generator is provided with flywheels or massive moving parts.

572.11 Structural detail, e.g., material, configuration, superconductor, discs, laminated, etc.:
Subject matter under subclass 572.1 for a power generating flywheel subcombination highlighting a specific feature of the mass, such as chemical, electrical, or mechanical make-up, etc.

572.12 Containing fiber or filament:
Subject matter under subclass 572.11 wherein the power generating flywheel specific feature is a thread-like or strand-like member.

572.2 Flywheel, motion smoothing-type:
Subject matter under subclass entitled ELEMENTS comprising a mass used to modulate or control the inertia or momentum of a mechanical system.

(1) Note. Where additional characteristics are claimed which limit the wheel or other rotor to particular arts, e.g., gears, vehicle wheels, centrifugal separators, turbines, dynamos, etc., the patent will be placed with the appropriate art and cross referenced here, but the mere designation of the device by name will not exclude the same from this subclass or the indented subclasses.

SEE OR SEARCH THIS CLASS, SUBCLASS:

5.95, for flywheels in gyroscopes.

433.5, for flywheel and gear combination.

SEE OR SEARCH CLASS:

29, Metal Working, subclass 894 for wheel making.

73, Measuring and Testing, subclass 66 for rotor unbalance.

572.21 Structural detail, e.g., fiber, held by magnet, etc.:
Subject matter under subclass 572.2 highlighting a specific feature of the mass, such as chemical, electrical, or mechanical make-up, etc.

572.4 Balancing for drum, e.g., washing machine or arm-type structure, etc., e.g., centrifuge, etc.:
Subject matter under subclass entitled ELEMENTS comprising structure for maintaining the equilibrium of (a) a barrel-like structure rotatable about a single axis, used in a clothes cleaning system, or (b) a long, slender support rotatable at one end about a single axis, used in a spinning system to separate material.

573.1 With fluid balancing means:
Subject matter under subclass 572.2 in which the flywheel has a liquid or gas to maintain equilibrium or stability.

573.11 And pressure compensation:
Subject matter under subclass 573.1 in which the flywheel has fluid balancing including a device, e.g., a valve, etc., to regulate the force generated by the liquid or gas in the system.

573.12 And elastic device:
Subject matter under subclass 573.1 in which the flywheel has fluid balancing including a device, e.g. elastomeric blocks, etc., to absorb vibration.

573.13 And bearings:
Subject matter under subclass 573.1 in which the flywheel has fluid balancing including an anti-friction device comprising spheres movable inside a track.

574.1 With electrical or magnetic damping:
Subject matter under subclass 572.2 in which the flywheel utilizes the flow of electrons or the attractive-repulsive property of materials to suppress vibration.

574.2 Damping using swinging masses, e.g., pendulum-type, etc.:
Subject matter under subclass 572.2 wherein vibration is suppressed by the flywheel utilizing an additional movable mass mounted on a support, in which the mass moves away from the support to a rotating member, e.g. shaft, connection, etc.

574.3 Damping by increasing frictional force:
Subject matter under subclass 572.2 in which the flywheel utilizes resistance generated by two moving parts to suppress vibration.

574.4 Damping by absorbing vibration force (via rubber, elastomeric material, etc.)
Subject matter under subclass 572.2 in which the flywheel utilizes the property of some materials to suppress an asymmetric motion of the flywheel from a state of equilibrium.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 123 – INTERNAL-COMBUSTION ENGINES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 192.1: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 36 for overcoming dead centers and subclass 573 for balanced flywheels.

Insert:

74, Machine Element or Mechanism, subclass 36 for overcoming dead centers; subclass 573.1 for fluid balanced flywheels; subclass 574.1 for flywheel with electrical or magnetic damping; subclass 574.2 for damping using swinging masses, e.g., pendulum type for damping, etc.; subclass 574.3 damping by increasing frictional force; and subclass 574.4 damping by absorbing the vibration force (via rubber, elastomeric material, etc.).

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 164 – METAL FOUNDING

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 287: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for flywheels and rotors with balancing means.

Insert:

74, Machine Element or Mechanism, subclass 573.1 for flywheels with fluid balancing means.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 188 – BRAKES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 218: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574 for vibration dampeners for flywheels and rotors.

Insert:

74, Machine Element or Mechanism, subclass 574.1 for flywheel with electrical or magnetic damping; subclass 574.2 for damping using swinging masses, e.g., pendulum type for damping, etc.; subclass 574.3 for damping by increasing frictional force; and 574.4 for damping by absorbing the vibration force (via rubber, elastomeric material, etc.).

Subclass 322.5: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574 for a fluid vibration dampener for flywheels and rotors.

Insert:

74, Machine Element or Mechanism, subclass 573.1 for fluid balancing for flywheels.

Subclass 378: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, 574 for vibration dampening means for flywheels for rotors.

Insert:

74, Machine Element or Mechanism, subclass 574.1 for flywheel with electrical or magnetic damping; subclass 574.2 for damping using swinging masses, e.g., pendulum type for damping, etc.; subclass 574.3 damping by increasing frictional force; and subclass 574.4 damping by absorbing the vibration force (via rubber, elastomeric material, etc.).

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 210 – LIQUID PURIFICATION OR SEPARATION

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 144: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for flywheels and rotors with balancing or vibration dampening means defining no specific feature of separator construction.

Insert:

74, Machine Element or Mechanism, subclasses 573.1 and 574.1-574.4 for flywheels and rotors with balancing or vibration dampening.

Subclass 363: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for flywheels and rotors with balancing or vibration dampening means defining no specific feature of separator construction.

Insert:

74, Machine Element or Mechanism, subclasses 573.1 and 574.1-574.4 for flywheels and rotors with balancing or vibration dampening.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 226 – ADVANCING MATERIAL OF INDETERMINATE LENGTH

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 61: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for a flywheel, per se.

Insert:

74, Machine Element or Mechanism, subclasses 572.2 for a flywheel.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 241 – SOLID MATERIAL COMMINUTION OR DISINTEGRATION

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 292: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for rotors and fly-wheels provided with balancing means.

Insert:

74, Machine Element or Mechanism, subclass 573.1 for flywheels provided with fluid balancing means.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 305 – WHEEL SUBSTITUTES FOR LAND VEHICLES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 136: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for a flywheel or rotor structure, per se.

Insert:

74, Machine Element or Mechanism, subclass 572.21 for a flywheel structure.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 310 – ELECTRICAL GENERATOR OR MOTOR STRUCTURE

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 51: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for flywheel or rotor balancing means and subclass 574 for flywheel or rotor vibration damping means.

Insert:

74, Machine Element or Mechanism, subclass 573.1 for flywheel fluid balancing means; subclass 574.1 for flywheel with electrical or magnetic damping; subclass 574.2 for damping using swinging masses, e.g., pendulum type for damping, etc.; subclass 574.3 for damping by increasing frictional force; and subclass 574.4 damping by absorbing the vibration force (via rubber, elastomeric material, etc.).

Subclass 74: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for flywheels, per se, and for rotors, per se.

Insert:

74, Machine Element or Mechanism, subclasses 572.1 for energy storage-type flywheels.

Subclass 153: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for flywheels and rotors, per se.

Insert:

74, Machine Element or Mechanism, subclass 572.1 for energy storage-type flywheels.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 318 – ELECTRICITY: MOTIVE POWER SYSTEMS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 150: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for details of structure of flywheels and rotors, per se.

Insert:

74, Machine Element or Mechanism, subclass 572.1 for energy storage-type flywheels.

Subclass 161: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for details of structure of flywheels and rotors, per se.

Insert:

74, Machine Element or Mechanism, subclass 572.1 for energy storage-type flywheels.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 322 – ELECTRICITY: SINGLE GENERATOR SYSTEMS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 4: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ , for flywheel structure.

Insert:

74, Machine Element or Mechanism, subclasses 572.1, for flywheel structure.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 335 – ELECTRICITY: MAGNETICALLY SWITCHES, MAGNETS, AND ELECTROMAGNETS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 190: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, appropriate subclasses, especially subclasses 9, 10.29+, 10.6, 53, 54, 55+, 567+, 570+, 835, and 838+ for mechanical elements including cams and/or eccentric devices.

Insert:

74, Machine Element or Mechanism, appropriate subclasses, especially subclasses 9, 10.29+, 10.6, 53, 54, 55+, 567+, 570.1, 835, and 838+ for mechanical elements including cams and/or eccentric devices.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 336 – INDUCTOR DEVICES

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 100: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 574 for flywheels and rotors with vibration damping means.

Insert:

74, Machine Element or Mechanism, subclass 574.1 for flywheel with electrical or magnetic damping; subclass 574.2 for damping using swinging masses, e.g., pendulum type for damping, etc.; subclass 574.3 for damping by increasing frictional force; and subclass 574.4 for damping by absorbing the vibration force (via rubber, elastomeric material, etc.).

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 422 – CHEMICAL APPARATUS AND DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 1: Under SEE OR SEARCH CLASS:

Delete:

588, Hazardous or Toxic Waste Destruction or Containment, subclasses 300 through 321 for processes of destruction by any chemical means of hazardous or toxic waste to make such waste safe for landfill disposal, and subclasses 249-260 for processes of permanently storing hazardous or toxic waste per se, particularly subclass 258 for storage of pathogenic organisms (e.g., virus, bacteria, or medical waste).

Insert:

588, Hazardous or Toxic Waste Destruction or Containment, subclasses 300 through 321 for processes of destruction by any chemical means of hazardous or toxic waste to make such waste safe for landfill disposal, and subclasses 249-260 for processes of permanently storing hazardous or toxic waste per se, particularly subclass 249.5 for permanent storage of chemical or germ warfare agents, or pathogenic organisms (e.g., sarin, VX, anthrax, virus, bacteria, medical waste, etc.)

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 451 – ABRADING

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 343: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for miscellaneous rotor balancing means.

Insert:

74, Machine Element or Mechanism, subclasses 570.1 for an eccentric and subclasses 573.1 and 574.1-.4 for flywheel balancing.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 464 – ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

Definitions Abolished:

Subclasses:

61-68

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Class definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 15.6+ for a power take-off from a shaft extension; subclasses 18+ for motion transmitting means including a flexible sealing diaphragm connected to a moving rod and a casing; subclasses 380+ for pivotally supported gearing; subclass 411 for structure providing yield ability in gear trains; subclass 443 for sound deadening means associated with rotary bodies; subclasses 489 and 500.5+ for a flexible motion transmitter (e.g., Bowden cable); subclasses 572+ for a flywheel or rotor with balancing or vibration dampening means; and subclasses 606+ for a gear casing.

Insert:

74, Machine Element or Mechanism, subclasses 15.6+ for a power take-off from a shaft extension; subclasses 18+ for motion transmitting means including a flexible sealing diaphragm connected to a moving rod and a casing; subclasses 380+ for pivotally supported gearing; subclass 411 for structure providing yield ability in gear trains; subclass 443 for sound deadening means associated with rotary bodies; subclasses 489 and 500.5+ for a flexible motion transmitter (e.g., Bowden cable); subclasses 573.1 for a flywheel or rotor with balancing or vibration dampening means; and subclasses 606+ for a gear casing.

Subclass 127: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for a flywheel or rotor with vibration dampening or balancing means.

Insert:

74, Machine Element or Mechanism, subclasses 573.1, for a flywheel or rotor with vibration dampening or balancing means.

Subclass 180: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclasses 572+ for a flywheel or rotor with balancing or vibration dampening means.

Insert:

74, Machine Element or Mechanism, subclasses 573.1, for a flywheel or rotor with balancing or vibration dampening means.

Definitions Established: (Place established subclasses in numerical sequence.):

61.1 Coil spring:
Subject matter under subclass 51 wherein said element is a resilient or elastic element, usually helically.

62.1 Plural:
Subject matter under subclass 61.1 further including at least two resilient or elastic elements.

63.1 And springs' centerline spaced along shaft axis:
Subject matter under subclass 66.1 wherein the centerline of one of the elements is spaced from the centerline of the other of the elements along the elongated member.

64.1 Concentric:
Subject matter under subclass 62.1 wherein one of the elements surrounds the other about a common centerline.

65.1 Parallel to shaft:
Subject matter under subclass 62.1 wherein the centerline of each of the elements is spaced radially an equal distance outwardly from elongated member.

66.1 Perpendicular to shaft:
Subject matter under subclass 62.1 wherein the distance on a radial line extending from the rotational axis to the centerline of the element at one end of the element is the same as the distance on a radial line extending from the rotational axis to the centerline of the element at the opposite end of the element.

67.1 Along curved centerline:
Subject matter under subclass 66.1 wherein the centerline of said element is arc-shaped and extends in circumferential direction radially spaced from the shaft.

68.1 Between axially spaced plates:
Subject matter under subclass 66.1 wherein driving and driven members are resiliently connected by said elements, one of said members including a pair of plates spaced apart axially from each other along the rotational axis, said elements being received in the space between said plates, and the other of said members including a radial projection extending between said plates and engaging said elements for said radial projections to drive said plates via said elements.

SEE OR SEARCH CLASS:

192, Clutches and Power-Stop Control, subclass 200 for a clutch element combined with means to resiliently mount such element on a hub.

68.2 Speed responsive:
Subject matter under subclass 68.1 wherein axially spaced plates have structure to adjust for velocity changes.

68.3 With fluid damping:
Subject matter under subclass 68.1 wherein axially spaced plates have vibration suppression with a system using air or liquid.

68.4 Interposed friction or braking element:
Subject matter under subclass 68.1 wherein axially spaced plates (a) have structure to increase resistance to motion or (b) utilize a motion retarding between the plates to suppress vibration.

68.41 With biasing means:
Subject matter under subclass 68.4 wherein axially spaced plates have either structure to increase resistance to motion or a motion retarding between the plates including a device to influence the element into contact.

68.5 Including bearing detail:
Subject matter under subclass 68.1 wherein axially spaced plates have fluid balancing including an anti-friction device comprising spheres movable inside a track.

68.6 Specified bushing:
Subject matter under subclass 68.1 wherein axially spaced plates have a particular lining.

68.7 Axially spaced springs:
Subject matter under subclass 68.1 wherein axially spaced plates have the resilient or elastic elements gapped along the length of the shaft.

68.8 Radially spaced springs:
Subject matter under subclass 68.1 wherein axially spaced plates have the resilient or elastic elements gapped along the line made by shaft radius.

68.9 Spring detail:
Subject matter under subclass 68.1 wherein axially spaced plates have particular structure, e.g. configuration, material, etc., of the resilient or elastic elements.

68.91 Non-coiled or non-metallic:
Subject matter under subclass 68.9 wherein axially spaced plates include a spring detail wherein the element is (a) straight, wavy, or other shape unlike a helix or (b) plastic, wood, ceramic, or other material having poor conductivity.

68.92 With particular seat:
Subject matter under subclass 68.9 wherein axially spaced plates include a spring detail having a specific connection of the element end or ends.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 492 – ROLL OR ROLLER

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Class definition: Under SECTION III, REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, particularly, subclass 214 for a friction wheel used in a friction transmission, the surface of the wheel frequently having a covering of friction material to enhance its frictional qualities and subclasses 572+ for a flywheel or rotor, such device being distinguished by features residing in and pertaining to inertia or momentum characteristics. (Roll or other rotary body, per se-Other Rotary Body, per se.)

Insert:

74, Machine Element or Mechanism, particularly, subclass 214 for a friction wheel used in a friction transmission, the surface of the wheel frequently having a covering of friction material to enhance its frictional qualities and subclass 572.2 for a flywheel, such device being distinguished by features residing in and pertaining to inertia or momentum characteristics. (Roll or other rotary body, per se-Other Rotary Body, per se.)

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 494 – IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS

Definitions Modified: (Place modifications in numerical sequence, where applicable):

Subclass 82: Under SEE OR SEARCH CLASS:

Delete:

74, Machine Element or Mechanism, subclass 573 for a machine element in the nature of a flywheel or rotor which is provided with balancing means.

Insert:

74, Machine Element or Mechanism, subclass 572.4 for a machine element in the nature of a flywheel for balancing a centrifuge.

D. CHANGES TO THE DEFINITIONS (Project No. M-5141)

CLASS 588 – HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT

Definitions Abolished

Subclass

258

Definitions Modified (Place modifications in numerical sequence, where applicable):

Class Definition: Under Section III, References to Other Classes, SEE OR SEARCH CLASS

Delete:

423, Chemistry of Inorganic Compounds, subclasses 210 through 215.5 for chemically removing, modifying or destroying a hazardous or toxic component of normally gaseous mixture, except for the chemical destruction of chemical weapons which may gas, which is in this Class 588 (see Line With Other Classes That Provide for Destroying Hazardous or Toxic Waste); and for recovering inorganic elements or compounds from hazardous or toxic waste (See Line With Classes Producing Desired Useful Product).

Insert:

423, Chemistry of Inorganic Compounds, subclasses 210 through 215.5 for chemically removing, modifying or destroying a hazardous or toxic component of normally gaseous mixture, except for the chemical destruction of chemical weapons which may be gas, which is covered in this Class 588 (see Line With Other Classes That Provide for Destroying Hazardous or Toxic Waste); and for recovering inorganic elements or compounds from hazardous or toxic waste (See Line With Classes Producing Desired Useful Product).

Subclass 249.5:

Delete: The current subclass title

Chemical or germ warfare agents:

Insert: New title

Chemical or germ warfare agents, or pathogenic organisms (e.g., sarin, VX, anthrax, virus, bacteria and medical waste, etc.):

Delete:

The (1) Note.

Subclass 250:

Delete: The current subclass title

Geologic marine or extraterrestrial storage and containment (e.g., tetonic, volcanic, deep natural, manmade earth cavity, submarine placement sites, lunar, earth orbital, and solar placement):

Insert: New title

Geologic, marine, or extraterrestrial storage and containment (e.g., tectonic, volcanic, deep natural, manmade earth cavity, submarine placement sites, lunar, earth orbital, and solar placement, etc.):

Subclass 258:

Delete:

The entire subclass title and definition and the references to SEE OR SEARCH CLASS: 210, 422, and 435.

Subclass 316:

Delete: The current subclass title

Dehalogenation using reactive chemical agents able to degrade (dehalogenation in molten chemical reagent 314) (EPO/JPO):

Insert: New title

Dehalogenation using reactive chemical agents able to degrade (EPO/JPO):