### Class 16 Miscellaneous Hardware (e.g., Bushing, Carpet Fastener, Caster, Door Closer, Panel Hanger, Attachable or Adjunct Handle, Hinge, Window Sash Balance, etc.)

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<td>Providing a restricted or insulated environment (i.e., sealable) for internal elements</td>
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CLASS 16 MISCELLANEOUS HARDWARE (E.G., BUSHING, CARPET FASTENER, CASTER, DOOR CLOSER, PANEL HANGER, ATTACHABLE OR ADJUNCT HANDLE, HINGE, WINDOW SASH BALANCE, ETC.)

94 D ..Drapery supports
95 R ..Covered, hollow or slotted track
95 W ..Wood
95 D ..Drapery supports
95 DW ...Wood
96 R ..Tracks
96 D ..Drapery supports
96 L ..Laminated
97 ..Wheel mounts
98 ..Antifrictionally mounted wheels
99 ..Door elevating
100 ..Floor
101 ..Reciprocating track
102 ..Traveling wheel
103 ..Swinging
104 ..Swiveling
105 ..Vertically adjustable
106 ..Wheel and guide roller
107 ..Wheels
87 B ..Overlapping doors, common track

FERRULES, RINGS, AND THIMBLES

109 ..Ring ferrules
110.1 HANDLE, HANDLE COMPONENT, OR HANDLE ADJUNCT
111.1 ..Having receptacle within
112.1 ..For plow
113.1 ..Length adjustable pull handle for luggage or luggage cart (e.g., wheeled suitcase handle, etc.)
114.1 ..Luggage-type (loop style) handgrip for carrying (e.g., suitcase, handbag, briefcase, shopping bag, package, etc.)

405 ..Extensible handle
406 ..Detachable handle
407 ..Welded or adhesively attached handle
408 ..Swinging handle
409 ...With means permanently connecting the handle to a carried article
410 ..With means permanently connecting the handle to a carried article
411 ..With carrier handle including a user enhanced grip attachment
412 ..Door handle
413 ..Detachable handle
414 ..Knob type
415 ..Drawer pull
416 ..Lift
417 ..Knob type

418 ...Swinging
419 ..Loop type
420 ..Ring type
421 ..Handle having mounted grip means (e.g., bicycle handlebar grips, etc.)
422 ..Detachable handle
423 ..For battery
424 ..For casket
425 ..For container
426 ..Auxiliary handle
427 ..Extension
428 ..Cord or rope related
429 ..Extensible handle
430 ..Handle with ergonomic structure (e.g., finger engagement structure such as indents, grooves, etc.) and handle user-interaction (human engineering) enhancements such as improved handle dimensions and handle positioning

INSULATED HANDLE

431 ..Handwheel
432 ..Knob type
433 ..Wire type
434 ..Unshaped or unattached pad
435 ..Bar-type handle
436 ..For lawnmower
437 ..Swinging
438 ..Casket handle
439 ..Braced handle
440 ..Knob-type handle
441 ..With flexible suspending means
442 ..Lift
443 ..Loop-type handle
444 ..Swinging
445 ..Ring-type handle
446 ..Including frangible or fusible portion
447 ..With diverse art portion or attachment
448 ..Ball and socket
449 ..Pliant or elastic hinge
450 ..Metallic
451 ..Snap or X hinge
452 ..Eye glass hinge
453 ..Retractable pintle
454 ..Latch hinge
455 ..Latch hinge
456 ..Latch hinge
457 ..Latch hinge
458 ..Resilient securing means

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233 Including lever for shifting one member of hinge relative to another
234 Having staggered leaves
235 Including adjustment for changing relative orientation of hinged members
236 Having plural independent adjustments
237 All rectilinear
238 Including screw-operated means to move hinged members
239 Pivotal adjustment
240 Including screw-operated means to move hinged members
241 About hinge axis
242 Including means to move hinged members
243 Along or parallel to hinge axis
244 Including threaded hinge pin
245 Screw-operated
246 To shift plate toward or away from hinged member
247 Having adjustable spacer between leaf and hinged member (e.g., shim)
248 Adjustable along or parallel to hinge axis
249 Having interdigitated surfaces or slot for hinge-to-member fastener
250 Having cover
251 Leaf cover
252 Having clamp for attaching hinge to hinged member
253 Circumferential clamp
254 Having means to facilitate assembly and disassembly of hinge sections to join or disjoin hinged members
255 Resiliently biased hinge
256 Having helical spring along hinge axis
257 Resiliently biased retaining means
258 Having discrete latch and spring to slide or pivot latch
259 Discrete retaining means for pivotal contacting surfaces
260 Separation of pivotal contacting surfaces
261 Having movable or removable connector
262 Pintle removable from remainder of hinge
263 And additional connector for pintle or separate pintle sections
264 Screw-threaded connector
265 Axially shifting hinge sections
266 At specific angular orientation of hinge sections
267 Hook and pin
268 Hook in aperture
269 Hook to hook
270 And discrete movable or removable connector to fasten one hinge section to another
271 By relatively sliding connection (e.g., dovetail)
272 Including receiving connector attachable to hinged member
273 Having means to reduce friction between hinge parts
274 By fluid lubricant
275 Ball or roller bearing
276 Circularly distributed balls or rollers
277 Resiliently biased hinge
278 Including means to render spring ineffective through all or a portion of swing
279 Comprising manipulatable element or portion
280 Biased from either direction toward neutral position (e.g., double acting)
281 Helical spring transverse to hinge axis
282 Plural hinge axes (e.g., multiple pintle)
283 And barrels for helical springs on separate axes
284 Resiliently biased rolling or sliding cam surface
285 By helical spring along hinge axis
286 Having transverse helical spring or elastic strip
287 Plural hinge axes (e.g., multiple pintle)
288 Four or more axes
289 To counterbalance weight of hinged member (e.g., closure biased to open position)
290 Including pivoted coaxial spring retaining bar
CLASS 16 MISCELLANEOUS HARDWARE (E.G., BUSHING, CARPET FASTENER, CASTER, DOOR CLOSER, PANEL HANGER, ATTACHABLE OR ADJUNCT HANDLE, HINGE, WINDOW SASH BALANCE, ETC.)

291 ...Over-center spring or linkage travel (e.g., "holdback hinge")

292 ...Having means to hold hinged members against pivotal movement about hinge axis (i.e., catch)

293 ...Over-center spring or linkage travel (e.g., "holdback hinge")

294 ...Plural hinge axes

295 ...Coil spring having axis along or parallel to hinge axis

296 ...Including camming or sliding surface to deflect spring perpendicularly to the hinge axis

297 ...Having means to hold hinged members against pivotal movement about hinge axis (e.g., catch)

298 ...Having force adjustment

299 ...Rotatable spring-engaging collar

300 ...Having detention aperture or protuberance

301 ...Having tool-receiving aperture

302 ...Plural hinge axes (e.g., multiple pintle)

303 ...Having axially biased camming surface

304 ...Coil

305 ...Plural coils

306 ...To counterbalance weight of hinged member (e.g., horizontal closure biased to open position)

307 ...On pintle

308 ...Torsion spring

309 ...Gravitating hinge having vertical axis

310 ...Having lift rod

311 ...Having plural spaced hinge axes

312 ...Including cam surface and follower

313 ...And rolling element

314 ...Between opposing surfaces

315 ...And detent in cam surface

316 ...On axially twisted or helically fluted element

317 ...Including means to hold hinged members against pivotal movement

318 ...Having aperture for slidably receiving pintle (e.g., camming knuckle)

319 ...Including means to hold or retard hinged members against pivotal movement (e.g., catch)

320 ...Magnetic

321 ...Resiliently biased catch

322 ...Having spring force adjustment

323 ...Including toggle linkage

324 ...Having discrete manipulatable release means (e.g., lever)

325 ...Including cam or eccentric

326 ...Sliding release means or lever-actuated sliding catch

327 ...Sliding

328 ...Movement along or parallel to hinge axis

329 ...Interdigitated or plural sockets

330 ...Opposed interdigitated sliding collars on hinge axis

331 ...And catch receiving socket

332 ...And catch receiving socket

333 ...Pivoted

334 ...Plural alternately useable detents

335 ...Spring arm

336 ...Plural opposed arms

337 ...By friction

338 ...Screw-threaded adjustment

339 ...Along or parallel to hinge axis

340 ...Threaded pintle

341 ...Cam or wedge actuator

342 ...On hinge pin or between surfaces surrounding hinge axis

343 ...Pivoted

344 ...Plural alternately useable detents

345 ...And sliding

346 ...Serially connected pivoted arms between leaves (e.g., brace)

347 ...About axis along or parallel to hinge axis

348 ...By transversely moving pin in slot

349 ...Having discrete manipulatable release means (e.g., lever operated)

350 ...By shifting hinged members

351 ...Along hinge axis

352 ...Sliding
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353 ...Along or parallel to hinge axis
354 .Including toothed gear
355 .Comprising nested open curved portions attached to hinged members
356 ...Including hinge pin
357 .Including transversely moving pin in slot
358 ..Plural noncollinear pins and slots
359 ...Parallel slots
360 ..Having pin fixed to pivoted arm or plate
361 ...Hinge pin movable along slot
362 ..Including sliding surfaces to permit relative translation of hinged members
363 ..And stop or abutment for pivotal movement
364 ....Movement transverse to hinge axis
365 .Three-hinged members
366 .Having plural hinge axes (e.g., multiple pintle)
367 .Having transverse or skewed axes
368 ..Connected by serially arranged pivoted links between hinged members
369 ....Plural sets of serially arranged pivoted links
370 ..Four or more axes
371 ..Including stop or latch
372 ..Including laminated leaf
373 ..Wire hinge
374 .Having stop or abutment
375 ....Adjustable or resilient
376 ..Comprising relieved axially opposed relatively rotating surfaces
377 ....Comprising platelike bearing portion curved about hinge axis
378 ..Hinge axis passes through hinged member (e.g., floor hinge)
379 ..Pintle or pivot concealed in hinged member
380 .Including means to retain pintle in hinge (e.g., tamper proof, nonrising pintle, etc.)
381 ..Threaded or slotted pintle or knuckle
382 .Including means to fasten leaf to member

383 ..By expandable connector
384 ..Self-penetrating fastener
385 ..Specified material
386 ..Specific pintle structure
387 ..Specific leaf structure
388 ..Having prongs or cooperating structure on leaf
389 ..Angular leaf sections
390 ...Parallel sections
391 ...Coplanar sections
392 ...Including planar section perpendicular to hinge axis

CLOSERS

393 .Spring and flexible link
394 .Spring and gear
395 .Spring and lever
396 ..Spring
397 ...Bow
398 ..Rubber
399 ....Torsional
400 ...Coil
401 ..Volute
402 ..Weight

CLOSURE CHECKS

403 .Inertia
404 .Pneumatic
405 .Spring
406 ...Rubber
407 ...Rubber cushioned
408 ...Multiple or opposed buffer surfaces
409 ...Link type

SASH BALANCES

410 .Cord and counterweight
411 .Sash and cord
412 .Spring
413 ..Drum and cord
414 ..Friction roller
415 ..Lever
416 ..Rack and pinion

SASH-CORD FASTENERS

417 .Bendable
418 .Chain
419 .Clamps
420 .Hooks
421 ..Knot
422 ..Slack-cord holders
423 ..Weight

SASH-CORD GUIDES

424 ..Sheet metal, single piece
425 ..Multiple wheel

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214 . Sliding
216 SASH WEIGHTS
217 . Composite
218 . Sectional
219 . Weight and wheel
220 WINDOW-BEAD FASTENERS
400 COUNTERBALANCE DEVICE, PER SE
401 . Spring
402 DOOR ESCUTCHEON OR SIMILAR ELEMENT
403 PAPER WEIGHT
404 MISCELLANEOUS ELEMENT OR ATTACHMENT

CROSS-REFERENCE ART COLLECTIONS

900 HANDLE WITH ANGULARLY ADJUSTABLE COMPONENT
901 HANDLE WITH MANIPULATION THEREOF BY HUMAN BODY PART OTHER THAN THE HAND
902 UNITARY HANDLE COMPOSED OF DIFFERENT COOPERATING MATERIALS
903 HANDLE WITH DIVERSE ART ENHANCEMENT (ILLUMINATOR, HEATER, ETC.)
904 HANDLE MEANS HAVING SANITARY CHARACTERISTIC (E.G., TO PREVENT TRANSMISSION OF GERMS, ETC.)
905 . Toilet seat lifter
906 LIGHT HANDLE COVER

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 MISCELLANEOUS (16/1 R)

DIGESTS

DIG 1 OVERHEAD DOOR
DIG 2 PAINT GUARD, KICK GUARD
DIG 3 HOLDDOWN
DIG 4 MIRROR MOUNT
DIG 5 PUSH AND PULL BAR
DIG 6 ANTI-RATTLE
DIG 7 DOOR OPENING APPARATUS
DIG 8 WEIGHTS
DIG 9 HYDRAULIC ACTUATED CHECKS, CLOSERS
DIG 10 SPRING ACTUATED CHECKS AND CLOSERS
DIG 11 FIREPLACE SCREEN
DIG 12 HAND GRIPS, PREFORMED AND SEMI-PERMANENT
DIG 13 PLASTIC HINGE
DIG 14 MAGNETIC HINGE
DIG 15 BATTERY HANDLES
DIG 16 WINDOW BRAKES, COUNTERBALANCES

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DIG 17 CHECKS AND CLOSERS, HOLDING MEANS
DIG 18 COMPOSITION HANDLES
DIG 19 CAST OR MOLDED HANDLES
DIG 20 DOOR BRAKES (TRACK OR GUIDEWAY)
DIG 21 CHECKS, CLOSERS, CHECK VALVE CONSTRUCTION
DIG 22 EXPANSION BOLT
DIG 23 REVERSIBLE
DIG 24 HANDLE FASTENING MEANS
DIG 25 HANDLE FASTENING MEANS, CLAMP BAND
DIG 26 HEADLIGHT HINGE
DIG 27 BEARINGS
DIG 28 MATTRESS HANDLE
DIG 29 NESTING HINGE LEAVES
DIG 30 KNOB, CONTROL LEVER
DIG 31 PULLEY (DOOR GUIDES AND HANGERS)
DIG 32 DOOR LATCH
DIG 33 RUBBER SLEEVE BEARINGS AND HINGES
DIG 34 ECCENTRIC ADJUSTMENTS
DIG 35 SKIDWAYS
DIG 36 SPRING
DIG 37 NUT LOCK
DIG 38 LAWN MOWER TYPE TONGUE AND CROSS ARM
DIG 39 ADJUSTMENT MEANS
DIG 40 ATTACHING MEANS
DIG 41 COUPLING (HANDLE, ROD, SHAFT)
DIG 42 METHODS (MISC.)
DIG 43 HINGE MOUNTING BRACKET
CLASS 16 MISCELLANEOUS HARDWARE (E.G., BUSHING, CARPET FASTENER, CASTER, DOOR CLOSER, PANEL HANGER, ATTACHABLE OR ADJUNCT HANDLE, HINGE, WINDOW SASH BALANCE, ETC.)