1 **MISCELLANEOUS**
2 **ALBUM FASTENERS**
2.5 **GUN BAND TYPE**
3.1 **ARTICLE HOLDER ATTACHABLE TO APPAREL OR BODY**
4 .Chatelaine safety hooks
5 .Flower
6 ..Pin attached
7 .Napkin
8 ..Hook
9 ..Neck enclosing
10 R .Pencil
11 R ..Clasp attached
11 FE ...Finger ear, belt attached pencil holder
11 PP ...Pencil holder with paper clip
11 CC ...Combined and convertible pencil holder
11 CT ...Container type pencil holder
11 HC ...Separate pencil holder and pocket engaging clip
11 S ...Sliding jaw pencil holding clip
11 C ...Wire pencil holder
11 F ...Flexible shank pencil holder
11 M ...With movable catch (e.g., pin pivoted lever, roller, etc.)
11 P ...Pivoted jaw pencil holder
12 ..Pin attached
10 A ..Rule holder
15 .Sleeve holder (e.g., for inner coat)
13 .Pin attached
3.2 .Arm or leg carried holder
3.3 .Eyeglass holder including retaining means
3.4 .Neck supported holder
3.5 .Holder contains pocket engager (e.g., antitheft device, wallet protector)
3.6 .Key ring holder
3.7 .Receptacle type holder
3.8 ..Eyeglass or spectacle case
3.9 .Open-ended holster type holder
3.11 .Article held by clip with spring (e.g., leaf, coil) member
3.12 .Article held by clip
3.13 .Article held by flexible connector (e.g., chain)
16 R **BALE AND PACKAGE TIES, HOSE CLAMPS**
17 R .Packet holders
18 ..Cord
17 A ..Adjustable bands
17 B ..Closed loops
17 AP ..Plastic bands
19 .With tighteners
268 ..Wedge
269 ..Winder
270 ..Self-locking (dead center or snap action)
271 ...Adjustable girth
272 ....Rack bar
273 ..Lever
274 R ..Worm and tooth
274 P ...Pivotal worm band clamp
274 WB ...Radial worm band clamp
275 ..Integral thread
276 ...External thread
277 ....Both ends threaded
278 ..Radial screw
279 ..Tangential screw
280 ...Adjustable girth
281 ....Step adjustment
282 .....Plural separable parts
283 ...Wire
284 ...Plural separable parts
285 ...Pivotal strap parts
286 ...Plural wrap
20 R .Metal bands
21 ..Separate connections
22 ...One piece
23 R ....Sheet metal
23 B .....Buckle band connection
23 W .....Swedged sheet metal band connection
23 EE .....End-to-end integral with band connecting means
24 ...Pivoted parts
25 ...Wedging parts
26 ...Wire
20 CW ..Circumferentially swagged band clamp
20 EE ..End-to-end integral band end connection
20 TT ..Ratchet and tool tightened band clamp
20 S ..Spring closed band clamp
20 LS ..Screw locked band clamp
20 W ..Swedged to lock band ends
27 .Wire
28 ..Separate connections
29 ...Wire
30 .Wooden bands

16 PB .Plastic band
30.5 R **BAG FASTENERS**
30.5 W .Swedged bag tie
30.5 P .Plastic band bag tie
30.5 S .Resilient slot bag tie
30.5 T .Twist-to-close bag tie
30.5 L .Slides to lock bag end within housing
31 R **BELT FASTENERS**
32 .Tighteners
33 R .Hinged
33 A ..Ring connected belt ends
33 F ..Bent over flanged ends
33 P ..Pintle pin connected belt ends
33 V ..V and round belts
33 L ..Overlapped belt ends
33 B ..Sheet metal knuckles, common pintle
33 C ..Wire knuckles, common pintle
33 K ..Knuckle integral with belt material
33 M ..Multiple pintles interconnected V-belt type
34 .Lacing
35 .One piece
36 ..Deflecting prong
37 .Screw clamp
38 .Splices
39 .Wire
31 B .Butt connected belt ends
31 C .V, round, trapezoidal belts
31 F .Flanged belt ends, connector hold ends
31 L .Lapped ends of endless belts
31 H .Hinged ends of endless belts
31 W .Wire strands reinforce belts
31 V .Hook and loop type fastener and zipper belt end connection
40 **BUTTONERS**
41.1 **CUFF HOLDER**
42 .Adjustable
43 .Sleeve clasp and button for cuff
44 .Sleeve clasp and clasp for cuff
45 .Sleeve clasp and hook for cuff
46 .Sleeve clasp and pin for cuff
47 .Sleeve pin and button for cuff
48 .Pin fastener
49.1 **NECKTIE FASTENER**
50 .Bands
51 ..End-securing pin
52 ..Gripping
53 ..Depressors
54 ...Button engaging
55 ...Pin or spur
56 .Button engaging
57 ..Adjustable
58 ..Cord loop
59 ..Pivoted or sliding jaw
60 ..Pin attached
61 .Collar button combined
62 ..Clasp attached
63 ..Pin attached
64 ..Separable fastener
65 .Tie, attached hook
66.1 .Magnetic, adhesive, or snap type fastener connects tie to shirt
66.2 .Tie engaging loop with shirt engaging fastener
66.3 .Tie knot engaging and collar attaching
66.4 .Tie clip and shirt clasp attaching
66.5 .Tie clip and fastening pin
66.6 .Tie pin with shirt fastener
66.7 .Tie stiffener with shirt fastener
66.8 .With pivotal jaws having spring means
66.9 .Slider
66.11 .Ornamental
66.12 ..Key shaped
66.13 .Resilient clasp
67 R **PAPER FASTENER**
67.1 .With screw threaded or notch engaging securing means
67.3 .Resiliently biased
67.5 ..Including means to open or close fastener
67.7 ...Pivotally mounted on pintle
67.9 ..One piece
67.11 ...Mounted on support means
67 AR .Adhesive
67 CF .Corner fastened
67 P .Paper-penetrating
68 R **STRAP TIGHTENERS**
69 R .Cam lever and loop
70 R ..Step adjusted
70 SK ...Ski boot and garment fasteners
70 T ...Split ring tightener
70 CT ...Chain and rope tighteners
70 TT ...Tire chain tighteners
70 ST ...Strap tighteners
70 J ...Jewelry
69 ST ..Strap tighteners
69 TT ..Tie chain tighteners
69 CT ..Cargo tie down

69 CF ..Cover fasteners
69 T ..Chain tighteners
69 TM ..Strap tightener machine
69 TS ..Toggle actuated sliding jaw
69 J ..Jewelry
69 AT ..Split ring with tightener
69 FP ..Concrete form panels
69 SB ..Seat belt buckles
69 WT ..Chain, cable, wire tighteners, and anchors
69 EF ..Envelope fasteners
69 SK ..Ski boot and garment fasteners
71 R .Strap-attached folding lever
71 T ..Toggle latch
71 ST ..Strap tightener
71 TT ..Tire antiskid strap tightener
71 SB ..Seat belts
71 A ..Split ring fasteners
71 J ..Jewelry-watch straps
71 TD ..Tie downs (covers, articles)
71 CT ..Cable, wire, rope tightener
71 SK ..Ski boot and garment fasteners
71 SD ..Dress hem raisers
71.1 .Midline
68 J .Jewelry
68 SB .Seat belt
68 AS .Accordion straps
68 PP .Parallel poles clamp
68 FP .Form panels for walls
68 CD .Cargo tie down
68 CT .Chain tighteners
68 BT .Split band with tightener
68 TT .Tire chain tighteners
68 SK .Ski, boot, and shoe fasteners
68 A .Fixed jaw with sliding or pivoted jaw
68 B .Rack and pinion and circular tighteners
68 C .Circular flange container clamp
68 D .Strap stretching tools, tighteners, and sealers
68 E .Buckle type
68 F .Integral piece
68 T .Toggle
68 SC .Stocking top
72.1 **TROUSER GUARDS, CLIPS, STRAPS (E.G., ABOVE SHOETOPS)**
72.5 **BEDCLOTHES HOLDERS**
72.7 **T-HEAD NONGRIPPING, FABRIC ENGAGING TYPE**
381 **ZIPPER OR REQUIRED COMPONENT THEREOF**
382 .Plural zippers
383 ..Zipper chain
384 ..Having surface sealing structure
385 .Having slider or interconnected sliders with access opening for diverse-art member
386 .Plural independently movable sliders
387 .With distinct, stationary means for anchoring slider
388 ..And for aligning surfaces or obstructing slider movement
389 .With distinct member for sealing surfaces
390 .With distinct separable-fastener
391 .Having coiled or bent continuous wire interlocking surface
392 ..With stringer tape interwoven or knitted therewith
393 ..With stringer tape having specific weave or knit pattern
394 ..With core encircled by coils or bends
395 ..With mounting portion having structural formations complementary to stitching
396 ..Attached by stitching
397 ...String or stringer tape having distinctive property (e.g., heat sensitive)
398 ..With stringer tape having distinctive property (e.g., heat sensitive)
399 .Having interlocking surface with continuous cross section
400 ..Opposed interlocking surface having dissimilar cross section
401 .Having interlocking surface formed from single member with varying cross section
402 ..Opposed surface having dissimilar cross section
403 .Interlocking surface constructed from plural elements in series
404 ..Having either noninterlocking element in, interrupted, or unequal length series
405 ..With element structural feature unrelated to interlocking or securing portion
406 ..Dissimilar opposed elements
407 ..Wire element
408 ..Preattached to mounting cord
409 ..Having interlocking portion with specific shape

450 .Having opposed structure formed from distinct filaments of diverse shape to those mating therewith
451 .Having filaments constructed from coated, laminated, or composite material
452 .Having mounting surface and filaments constructed from common piece of material
287 **FREIGHT CONTAINER TO FREIGHT CONTAINER FASTENER**
288 **DRUM OR CAN SPACER FASTENER**
289 **TRIM MOLDING FASTENER**
290 .Having externally threaded attaching means
291 ..And laterally extending biasing appendage
292 .Having laterally extending biasing appendage
293 .Resilient metal type
294 ..Strip formed
295 ..Sheet metal formed
296 ..Wire formed
297 .Plastic type
298 **PLURAL FASTENERS HAVING INTERMEDIATE FLACCID CONNECTOR**
299 .Chain connector
300 .Elastic connector
301 ..Strap connector
302 .Strap connector
303 **HAVING MAGNETIC FASTENER**
304 **HAVING ADHESIVE FASTENER**
305 **COMBINED DIVERSE MULTIPART FASTENERS**
307 .Buckle
308 ..And buckles
309 ...Having separate material adjustment means
310 ...Having separate disconnect means
311 ....Pivotal lever type
312 ...Having disconnect structure
313 ....Resilient cooperating means
314 ...And pin
315 ...Crossed belt accommodating
316 ..And clasp
317 ..And pin
318 ..And hook
319 ...Having disconnect means
320 ...Having penetrating prong
321 ...Buckle having plural receiving slots
322.1 ..Including a button fastening element
323 ..And separable fastening means for attached fastener
324 ...Snap fastener
325 ..Having roller means
326 .Clasp
327 ..Having pivoted members
328 ...Cam type member
329 ...Plural clasps
330 ....And toggle operator
331 ....Spring biased
332 .....Coil
333 ....And cam
334 ...Coil spring biased
335 ..Plural clasps
336 ...Resilient type clasp
337 ....And cam
338 ....Spring biased jaw
339 ....Circular work engageable
340 ....And pin attachment
341 ....And disconnect means
342.1 ..Including a button fastening element
343 ..And hook
344 ...Having intermediate connector allowing movement
345 ....And adjustment means
346 ...Having gripping configuration on clasp jaw
347 ....Penetrating type
348 ...Having cam
349 ...Having separable jaws
350 ..And penetrating prong
351 ..And pin
352 ...Having separate pin loss prevention means
353 ....Pin coextensive, coplanar, and contiguous with clasp jaw
354 ...Pin coextensive, coplanar, and contiguous with clasp jaw
355 ...Pin forms part of clasp jaw
356 .Pin
357 ..And pin
358 ...And disconnect means
359 ....Hook and eye type
360 ...And hook
361 ....Having connector allowing movement
362 ...Having intermediate connector allowing movement
363 ..And hook
364 ...Having intermediate connector allowing movement
365 ....And adjustment means
366 ...Hook having locking means

713.9 .Having hook shaped directing means
714 ..And movable component or surface for closing throat
714.1 ..Mounted by structure allowing bodily movement thereof
714.2 ..Formed from wire
714.3 ..With mounting structure formed from different material
714.4 ..With permanently deformed mounting structure
714.5 ...Expanding stud
714.6 .Having loop or sleeve shaped directing means
714.7 ..Entirely formed from flaccid material
714.8 ..Mounted by structure allowing bodily movement thereof
714.9 ..Formed from wire
715 ..With permanently deformed mounting structure
715.1 ...Loop or sleeve closed when mounted
715.2 ...Expanding stud
715.3 .Having elastic segment in lacing
715.4 .Having means covering tip of lacing
715.5 ..Tasseled
715.6 ..With plural components
715.7 ..With permanently deformed mounting structure
114.5 **STRAP CABLE OR PIPE BUTTON**
115 R **CORD AND ROPE HOLDERS**
116 R .Chain
116 A ..Bead chain fasteners
122.3 .Sheathed strand
122.6 .Plural-strand cord or rope
127 .Friction disk
128 .Knot engaging
129 R .One-piece
130 ..Wedge slot
131 R ..Wire
131 C ...Cord runs through center of coil
129 B ..Sheet material
129 A ..Slack adjuster
129 D ..Rubber
129 C ..Wire
129 W ..Swagged, deformable
132 R .Pivoted part
133 ..Lever tension
134 R ..Cam lever
134 KA ...Laterally shifted rope
134 KB ...Cam engaging or disengaging
134 L ...Fixed and movable jaws, movable jaw pulled
134 N ...Link-connected parallel jaws
134 P ...Dual cam
132 AA ..Pivotal means with plate aperture
132 WL ..Jaws locked together by cam, wedge, lever, or screw
135 R .Screw clamp
135 A ..Screw clamp with snubber
135 K ..Tangential bolt
135 L ..J-shaped bolt
135 N ..Bolt perpendicular to cable axis
136 R .Sliding part or wedge
136 K ..Rope looped about movable member
136 L ..Rope clamped between cone and socket
136 A ..Sliding ball
136 B ..Screw actuated
115 A .Bendable, ductible
115 F .Safety release
115 G .Alignable aperture and spring pressed moving element
115 H .Loop, adjustable
115 J .Snubbers, cleats by dielectric loss
115 K .Loop engaging
115 L .Ball or roller
115 M .Sliding wedge
115 N .Helical preform
163 R **BUCKLES**
164 .Harness
165 ..Combined buckles and snap hooks
166 ..Lock
167 ...Key
168 ..Clamping
169 ...One-piece
170 ...Pivoted part or lever
171 ...Sliding part or wedge
172 ..Cross bails
173 ...Pivoted stud plate
174 ...Rigid stud
..Penetrating tongue
175 ...Guarded
176 ...One-piece
177 ...Multiple
178 ...Pivoted
179 ....Lever actuated
180 ....Stud
181 ...Sliding part or wedge
182 ..Strap loops and attaching devices

183 ..Loop shields
184 .Garment shielded
.Combined pressure bar and guard
185 ..Hook attached
.Penetrating prong
186 ..One-piece
187 ...Hook attached
188 ..Pivoted
189 ...Hook attached
190 ..Slide
191 .Pivoted lever
192 ..Hook attached
193 ..Looped strap
194 .Sliding part of wedge
195 ..Hook attached
196 ..Looped strap
197 .Looped strap
198 .One-piece
199 ..Hook attached
200 ..Looped strap
163 FC .Fabric covered
163 K .Ornamental and/or object supported
705 **PIERCED EARRING FASTENER**
453 **INDEPENDENT, HEADED, APERTURE PASS-THROUGH FASTENER**
454 **FASTENER WITH REVOLVING COMPONENT WRAPPING STRUCTURE-TO-BE-SECURED ABOUT FASTENER**
455 **CLASP, CLIP, SUPPORT-CLAMP, OR REQUIRED COMPONENT THEREOF**
456 .Gripping member adapted for tool actuation or release
457 .With specific mounting means for attaching to rigid or semirigid supporting structure or structure-to-be-secured
458 ..For cooperating with aperture in supporting structure or structure-to-be-secured
459 .Dissociable gripping members
460 ..Channel and inserted bar
461 ...Having operator or locking means
462 ...Resilient channel or bar
463 .Having gripping member actuated by fluid force
464 .Having inserted and receiving interlocking members connected by bendable, nonbiasing strap
465 ..Discrete flaccid strap
466 ...With distinct means for preventing separation of members
467 ....Slidably mounted
468 ...With separate flaccid flap or pocket for protecting structure-to-be-secured
469 ...With separate, cavity-blocking gate on receiving member
470 ...Resilient inserted or receiving member
471 ....Inserted or receiving member substantially covered or coated for protection or to promote gripping
472 ....Resilient inserted member
473 .....Having engaging face formed from nonmetallic material
474 ......Having head and neck type engaging face
475 ....Having internal supporting or reinforcing element
476 ....Circular head or neck
477 ...Having wedge shaped, inserted and receiving members
478 ...With specific means for attaching to flaccid strap or supporting strap
479 ....On the inserted member
480 ...Having necked button sliding along length of closed, variable width loop
481 .Having flaccid gripping member
482 ..Formed from elastic material
483 .Encircling gripping member including semirigid band and operator for tightening
484 .Encircling gripping member including semirigid band and means for adjusting girth
485 .With specifically shaped, nongripping, rigid structure for connecting independently operable clasps, clips, or support-clamps
486 .Gripping member face integral with or rigidly affixed to screw-driving portion
487 .Having either discrete flaccid or thin, nonbiasing, integral, connecting hinge
488 .Having equally spaced or continual gripping faces revolving about central axis
489 .Including pivoted gripping member
490 ..Pivoted member also slides
491 ...Tapered face

492 ..Pivoting gripping member either supports or coacts with sliding engaging face
493 ..Having three or more pivotally connected gripping members
494 ..Having toggle operator for moving
495 ..Having rigid linking arm pivotally connected to each gripping member
496 ...With extended lever portion
497 ....Having lever end modified for attachment to support
498 ..Pivoted gripping member applies camming force
499 ..Spring or resiliently biased about pivot
500 ...Distinct spring
501 ....Attached solely by spring
502 ....With operator for moving pivoted member
503 .....Camming or wedging element
504 .....Pivoted or rotated element
505 ....With position locking-means for gripping members
506 .....Including pivoted arm
507 ....Having specific surface material or irregularity on or along engaging face
508 ....Having specific handle structure
509 ....Coil spring
510 .....Having coil portion coaxial or parallel with pivotal axis
511 ....Flat or leaf spring
512 ..Closed by gravity or weight of structure-to-be-secured
513 ..With operator means for moving pivoted member
514 ...Threaded cylindrical rod and mating cavity
515 ...Camming or wedging element
516 ....Pivoted or rotated element
517 ..With position locking-means for gripping members
518 ...Integral locking-means
519 ..Having inserted and receiving interlocking engaging faces
520 ...Resilient gripping member
521 ..Having specific surface material or irregularity on or along engaging face
522 .Including track or way guided and retained gripping member
523 ..Biased by distinct spring
524 ..With operator for moving guided member
525 ...Threaded cylindrical rod and mating cavity
526 ..Track or way oblique to path of gripping member
527 ..With position locking-means for gripping members
528 ...Integral locking-means
529 ..With specific mounting means for attaching to flaccid supporting structure or structure-to-be-secured
530 .Having gripping member formed from, biased by, or mounted on resilient member
531 ..Integrally combined, independently operable, diverse clasps, clips, or support-clamps
532 ..With specific means for mounting to flaccid supporting structure or structure-to-be-secured
533 ...Mounting means made entirely from integral wire portion of resilient gripping member
534 ....Wire coiled about flaccid supporting structure
535 ..With operator for moving biased engaging face
536 ...Camming or wedging element
537 ....Encircling sleeve type element
538 ....Pivoted or rotated element
539 .....Element pivots or rotates in plane parallel to plane bisecting opposed engaging faces
540 .....Elongated element with pivot between cam and handle portions
541 .....For moving engaging face of U-shaped gripping member
542 ..With position locking-means for engaging faces
543 ...Integral locking-means
544 ...Pivoted lock member
545 ..Opposed engaging faces on gripping member formed from single piece of resilient material

546 ...Piece totally forms clasp, clip, or support-clamp and has shaped, wirelike, or bandlike configuration with uniform cross section throughout its length
547 ....Opposed faces located in and bias towards common plane in nonuse position
548 ....Resilient gripping member having tightly twisted portion
549 ....Resilient gripping member having coiled portion
550 .....Convolutions of coil form faces
551 ....Relatively movable segments of resilient gripping member contact and cross in nonuse position
552 .....Segments form opposed engaging faces
553 .....Having specific handle structure
554 .....Having specific handle structure
555 ....Terminal end of resilient member having engagement or disengagement enhancing structural modifications
556 ....Having specific surface irregularity on or along engaging face
557 ...Having specific handle structure
558 ....Movably attached to gripping member
559 ...Interlocking faces
560 ...With reinforcing member
561 ...Having specific surface irregularity on or along engaging face
562 ....Corrugated or toothed face
563 ...Clasp, clip, or support-clamp cut or shaped from a single sheet of resilient, uniformly thick, planar material
564 ..Having specific surface material or irregularity on or along engaging face
565 ..Having specific handle structure
566 ..Including resilient biasing wire
567 ...Coiled wire
568 .Having gripping member shifted by operator
569 ..Threaded cylindrical rod and mating cavity
570 .Formed from single rigid piece of material
571 ..Having specific surface irregularity on or along engaging face
572.1 **SEPARABLE-FASTENER OR REQUIRED COMPONENT THEREOF (E.G., PROJECTION AND CAVITY TO COMPLETE INTERLOCK)**
573.09 .With third detached member completing interlock (e.g., hook type)
573.11 ..Quick connect or release (e.g., spring and detent)
574.1 ..For jewelry
575.1 ..Including eyelet (e.g., shoes)
576.1 ..For key holder
577.1 ..For tire chain, strap, etc. (e.g., rotatable or sliding spring gate)
578.1 ..For apparel and related accessories
578.11 ...Button, button related
578.12 ....Snap (e.g., key hole type)
578.13 ...Post and receiver (e.g., pin and slot)
578.14 ...Hook (e.g., within cavity)
578.15 ...Belt, strap, etc. (e.g., buckle or snap fastener)
578.16 ...Glove
578.17 ...Purse, wallet, etc.
579.09 ..Belt, strap, harness, etc.
579.11 ...For safety belt buckle, strap, harness, etc.
580.1 ..Sliding or rotating element
580.11 ...Element having key slot
581.1 ..Resilient element (e.g., snap type)
581.11 ...For upholstery, panel, trim strip, etc. (e.g., spring biased)
581.12 ...Link with pivoted gate
582.1 ..Hook
582.11 ...Snap with spring bias (e.g., gate)
582.12 ...For connecting chains (e.g., opposed pivoted hook)
582.13 ...For heavy load bearing device (e.g., chain, rope, cable, etc.)

582.14 ....Haim, harness, whiffletree, rein, etc.
583.1 ..For chain, rope, cable, etc.
583.11 ...Coupler with sliding socket to complete interlock
584.1 .Each mating member having similarly shaped, sized, and operated interlocking or intermeshable face
585.1 ..Zipper-type (e.g., slider)
585.11 ...For garment (e.g., with ribs and grooves interlocking elements)
585.12 ...For container (e.g., bag)
586.1 ..Resilient element
586.11 ...Snap (e.g., identical elements)
587.1 ..Clasp (e.g., spring type)
587.11 ...For jewelry (e.g., buckle type)
587.12 ...For belt or strap
588.1 ..Hook
588.11 ...For belt, strap, etc. (e.g., with pivoted gate locking member)
588.12 ...For apparel
589.1 ..Slot and tab or tongue
590.1 ..Sliding or rotating element
591.1 .Including member having distinct formations and mating member selectively interlocking therewith
592.1 ..Hook
592.11 ...Multiple catch (e.g., with pivoted gate)
593.1 ..Slot and tab or tongue
593.11 ...Having teeth or serrations (e.g., sliding with respect to each other)
594.1 ..Resilient element (e.g., with spring)
594.11 ...Snap with cavity
595.1 ..Pin, post and receiver
596.1 ..Notched clasp (e.g., with receiving slot)
598.1 ..Projection passes through cavity then moves toward noninserted portion of its member to complete interlock (e.g., snap hook)
598.2 ...Entire projection member forms loop or ring when interlocked
598.3 ....Includes slidable gate closing entrance throat
598.4 ...Hook type projection member
598.5 ....Plural hooks entering opposite sides of same cavity
598.6 .....Hooks formed solely from wire
598.7 ....Noninserted portion of projection member includes movably connected gate for closing access throat
598.8 .....Threaded gate
598.9 .....Revolvably mounted disc shaped gate
599.1 .....Pivotally connected gate
599.2 ......Gate swings transversely to plane of hook
599.3 ......Gate also slides relative to pivot
599.4 ......Having means biasing gate about pivot
599.5 ....And position locking-means for gate
599.6 ....Includes distinct biasing spring
599.7 ....Coil type spring
599.8 ....Coiled about pivotal axis of gate
599.9 ......Having position locking-means for gate
600.1 ....Locking-means pivotally connected
600.2 ....Locking-means slidably mounted
600.3 ......Gate closes when structure-to-be-secured is tensioned
600.4 .....Track or way guided gate
600.5 ......Having means biasing gate
600.6 ....Guide of gate encircles shank
600.7 ....Cavity in shank forms track or way
600.8 ....With position locking-means for gate
600.9 .....Resilient, self-biased gate
601.1 ......With position locking-means for gate
601.2 ......Gate and hook formed from plastic
601.3 ......Gate and hook formed solely from wire
601.4 ......Gate and hook formed from single piece of sheet metal
601.5 ....Projection pivotally attached to shank or mounting structure
601.6 ....Projection slidably mounted to shank or mounting structure

601.7 ....Projection self-biased towards shank or mounting structure
601.8 .....And formed solely from wire
601.9 ......Cooperating with relatively stationary wire gate
602 ..Interlocking portion actuated or released responsive to preselected condition (e.g., heat, pressure)
603 ..Having electric or fluid powered, actuation or release, of interlock
604 ..Projection having movable connection between components thereof or variable configuration
605 ...With additional, similar projection for engaging different cavity
606 ...And operator therefor
607 ....Including camming or wedging element on projection member
608 .....Pivotally attached element
609 ...Including pivotal connection between projection components
610 ....Component slides relative to connection
611 ....And spring or resilient extension biasing about pivot
612 ...Including slidably guided connection between nonself-biasing projection components
613 ....And distinct spring biasing component
614 ...Including resiliently biased projection component or surface segment
615 ....Requiring manual force applied against bias to interlock or disengage
616 .....Having connected leading edge and separated trailing arms
617 ....Cooperating with cavity having side walls and axially biased component capping end
618 ....Forming total external surface of projection
619 .....And encircling hollow central area
620 ......Having separate mounting means inserted into area
621 ....Plastic deformation of means or surface required for mounting
622 ......Having separate mounting means encompassing cross section of projection
623 ......Having dome-shaped head and expansion slit along side
624 ....And connected surface at tip of head
625 .....Having inserted end formed by oppositely biased surface segments
626 .....Constructed from wire
627 ....Having both resiliently biased and rigid components forming external surface of projection
628 ..Projection member including noninserted spring for engaging and pushing against receiving member
629 ..Receiving member includes either movable connection between interlocking components or variable configuration cavity
630 ...With additional cavity for engaging different projection
631 ....Having common means actuating or releasing interlocking components or surfaces
632 .....And interlocking with independently associated or dissociated projection members
633 ...And operator therefor
634 ....For plural, oppositely shifting, similar interlocking components or segments
635 .....Operator includes camming or wedging element
636 ....Including pivotally connected element on receiving member
637 .....For shifting pivotally connected interlocking component
638 ......Element and component pivot about same axis
639 .....For shifting slidably connected and guided, nonself-biasing interlocking component
640 ....Including slidably connected and guided element on receiving member

641 .....For shifting pivotally connected interlocking component
642 .....For shifting slidably connected and guided, nonself-biasing, interlocking component
643 ...Having pivotally connected interlocking component
644 ....Blocking removal of formation on projection from complementary formation on side wall of cavity
645 ....And position locking-means therefor
646 ....And relatively movable handle therefor
647 ....Requiring manual force thereon to interlock or disengage
648 .....Plural, oppositely shifting, similar interlocking components
649 .....Having aperture therein alignable with parallel access opening
650 .....Having interlocking portion thereof housed continuously within cavity
651 ...Having cavity with side walls and axially biased component capping end
652 ...Having slidably connected, nonself-biasing interlocking component
653 ....Blocking removal of formation on projection from complementary formation on side wall of cavity
654 ....And position locking-means therefor
655 ....And relatively movable handle therefor
656 ....Requiring manual force thereon to interlock or disengage
657 .....Plural, oppositely shifting, similar interlocking components
658 .....Having closed aperture therethrough alignable with parallel access opening
659 ...Having flaccid component defining access opening of cavity
660 ....Component formed solely by flaccid cord
661 ....With nonflaccid component
662 ...Having resiliently biased interlocking component or segment
663 ....Cavity or projection rotates about axis of cavity to dissociate
664 ....Requiring manual force applied against bias to interlock or disengage
665 .....And partially blocking separate, nonresilient access opening of cavity
666 ....And closed elongated access opening for guiding transverse projection travel after insertion
667 .....Nonresilient walls define opening
668 .....Formed from wire
669 ....And access opening with gapped perimeter for allowing movement of noninserted projection support therepast
670 .....Cavity constructed solely from wire
671 ....Partially blocking separate, nonresilient, access opening of cavity
672 .....And bodily shifted into or out of interlock location by manual force thereon
673 .....Formed from wire
674 ......Having curved or bent engaging section conforming to contour of projection
675 ....Similar, distinct sections
676 ......Having distinct sections engaging projection at spaced points
677 ....Including separate, nonprojection-engaging spring for biasing
678 ....Biased component or segment entirely formed from wire
679 ....Having portion of cavity deformed during mounting
680 .....And cooperating with separate mounting component
681 ....Having axially extending expansion slit along side of cavity

682.1 ..Means for mounting projection or cavity portion
683 ...Allows bodily movement facilitating interlock
684 ....About pivotal connection
685 ....Includes resilient component separate from portion
686 ...Allows relocation of portion
687 ...Having component of means permanently deformed during mounting operation
688 ....And formed from or fixedly attached to projection or cavity portion
689 .....Cooperates with detached component of means
690 .....Having shape facilitating impaling of mounting surface
691 ....And inserted into or through cavity or projection
692 ....And encircling cavity or projection
693 ...Consisting of thermally fusible substance
694 ...Having threaded formation
695 ...Having specific structure for cooperating with stitching
696 ...Having shape facilitating impaling of mounting surface
697.1 ..Plural distinct cavities or projections
697.2 ...Hook type
698.1 ..Hook-shaped projection member passing through cavity
698.2 ...Formed from single piece of sheet metal
698.3 ...Formed solely from wire
700 ..Cavity having specific shape
701 ...Including closed elongated access opening for guiding transverse projection travel after insertion
702 ...Having access opening with gapped perimeter for allowing movement of noninserted projection support therepast

706 **PIN OR SEPARATE ESSENTIAL COOPERATING DEVICE THEREFOR**

706.1 .With separately operable, manually releasable, nonpenetrating means for mounting (e.g., drapery hook)
706.2 .Having distinct guiding, holding, or protecting means for penetrated portion
706.3 ..Means detachable from or flaccidly connected to pin (e.g., hatpin type)
706.4 ...For pin having plural penetrating portions
706.5 ...Including relatively movable guiding, holding, or protecting components or surfaces
706.6 ....Having operator for moving holding component or surface
706.7 .....Moves pivoting holding component
706.8 .....Moves slidably guided, nonself-biasing, holding component
706.9 ....Having pierceable (e.g., cork) or naturally resilient (e.g., rubber) surfaces
707 ....With pivotal connection therebetween
707.1 ....With slidable connection between nonself-biasing components
707.2 ....Having resiliently biased component or surface
707.3 .....Coiled about longitudinal axis of held portion
707.4 .....And aperture therein alignable with another spaced aperture of means
707.5 .....And nonresilient structure for guiding portion thereto
707.6 ...Including structure for cooperating with formation (e.g., cavity) formed on penetrating portion
707.7 ..For pin having plural penetrating portions
707.8 ...Each independently movable towards and into cooperation with means
707.9 ..Including relatively movable guiding, holding, or protecting components or surfaces
708 ...With connection allowing component to revolve about axis of held penetrating portion
708.1 ...With pivotal connection therebetween
708.2 ....Having position locking means therefor
708.3 ....Spring or resiliently biased

708.4 ...With slidable connection between nonself-biasing components
708.5 ....Component slides parallel to axis of held penetrating portion
708.6 ...Means engages formation formed on penetrating portion
708.7 ...Having nonresilient and resilient components
708.8 ...Means formed from single resilient wire
708.9 ...Means formed from resilient sheet metal
709 ..With independent, spaced, intermediate connections, or formations (e.g., coils), about which portion or means move
709.1 ...Includes slidable connection
709.2 ..With pivotal connection between penetrating portion and means
709.3 ...Connection also permits sliding movement
709.4 ...Resiliently biased about connection
709.5 ..With slidable connection intermediate penetrating portion and means
709.6 ..Having resilient bridging structure between portion and means
709.7 ...Means includes structure for cooperating with formation (e.g., cavity) formed on portion
709.8 ...And penetrating portion formed from wire
709.9 ....Bridging structure includes elongated nonwire element
710 ....Wire also forms coiled bridging structure about which portion moves
710.1 .....Including distinct device for cooperating with coil
710.2 .....Having means also formed from same wire
710.3 .With cavity for guiding structure-to-be-secured towards penetrating portion (e.g., stocking support)
710.4 .Having penetrating portion retractable or of changeable length
710.5 .Having interconnected distinct penetrating portions
710.6 ..Connection allows movement therebetween
710.7 ...Slidable connection
710.8 ...Resilient connection
710.9 ..Formed from common wire
711 ...And pointing in same direction
711.1 .Penetrating portion includes relatively movable structure for resisting extraction
711.2 .Having specific wire penetrating portion
711.3 ..Wire curved or bent
711.4 .Having distinct head structure
711.5 ..Movably connected to penetrating portion
265 R **STRAP-END-ATTACHING DEVICES**
265 A .Bendable sheet material
265 B .Watch pintle connected
265 C .Webbing to tube (lawn chair)
265 BC .Buckle connected
265 EC .End clasp
265 H .Hook
265 AL .Ring-loop
265 CD .Cargo tiedown
265 WS .Watch strap
265 EE .Enlarged end epoxy
267 **PIVOTED EDGE STAYS**
703.1 **FASTENER DESTRUCTIVELY SECURED BY RESHAPING DISTORTION FORCE (E.G., DUCTILE FASTENER)**
703.2 .Distorted structure having shape facilitating impaling
703.3 ..And distinct fastener structure cooperating with impaled structure
703.4 ...Detached cooperating structure
703.5 ..Including plural impaling elements
703.6 ...Elements form single aperture (e.g., split shank type)
704.1 **READILY INTERLOCKING, TWO-PART FASTENER REQUIRING EITHER DESTRUCTIVE OR TOOL DISENGAGEMENT**
704.2 .Including additional fastener structure linking parts
716 **HANGER ON PORTABLE ARTICLE SUPPORT FOR MANUAL ATTACHMENT THEREOF TO OVERHEAD SUPPORT (E.G., DRAPERY HOOK)**

CROSS-REFERENCE ART COLLECTIONS

900.1 **SHIRT COLLAR HOLDERS**
901 **PENETRATING-TYPE PAPER FASTENER**
902 **TUFTING BUTTON FASTENER**
903 **ARMPIT SHIELD FASTENER**
904 **GLOVE FASTENER**
905 **WATCH CHAIN FASTENER (E.G., SWIVEL HOOK)**
906 **FASTENER FOR ATTACHING BAND TO WATCH OR SIMILAR ARTICLE (E.G., NAME PLATE)**
907 **PLASTIC HOOK**
908 **FISHLINE SUPPORTED ATTACHMENT HOOK**
909 **WINDERS FOR FLEXIBLE MATERIAL**
910 **ONE-PIECE**

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

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

FOR 100 **SEPARABLE-FASTENER OR REQUIRED COMPONENT THEREOF (24/572)**
FOR 101 .With third, detached member completing interlock (24/573.1)
FOR 102 ..And linking cavities in adjacent parallel panels (24/573.2)
FOR 103 ..Third member includes independently engaged hooks for linking spaced cavities (24/573.3)
FOR 104 ...And movably connected, noninserted gate for closing access throat of hook (24/573.4)
FOR 105 ..Third member includes relatively movable, separate components (24/373.5)
FOR 106 ...For parachute harness (24/573.6)
FOR 107 ..Third member consists of unitary elongated element (24/573.7)
FOR 108 .Each mating member having similarly shaped, sized, and operated interlocking face (24/575)
FOR 109 ..Including elongated face having identical, parallel cross sections throughout its length (24/576)
FOR 110 ..Including elongated face having varying, parallel cross sections throughout its length (24/577)
FOR 111 ..Including complementary shaped and alternately useable interlocking faces (24/578)
FOR 112 ..Single piece hook-shaped member (e.g., mating garment hooks) (24/579.1)
FOR 113 .Including member having distinct formations and mating member selectively interlocking therewith (24/580)
FOR 114 ..Formations positioned along wall forming mating-member-guiding cavity (24/581)
FOR 115 ...Formations member having movably attached or biased interlocking structure (24/582)
FOR 116 ..Formations member having movably attached or biased interlocking structure (24/583)
FOR 117 ..Selectively interlocking member having movably attached or biased interlocking component (24/584)
FOR 118 ...And cavity for guiding movement of formations (24/585)
FOR 119 ..Having mounting means allowing repositioning of member for facilitating interlock (24/586)

FOR 120 .Including member having elongated, resilient, interlocking face with identical, parallel cross sections throughout its length (24/587)
FOR 121 .Including receiving member having cavity and mating member having insertable projection guided to interlock thereby (24/588)
FOR 122 ..Having divergent interlock means distinct from cavity or projection of its member (24/589)
FOR 123 ..Projection or cavity rotates about axis of cavity access opening to interlock (24/590)
FOR 124 ...Having projection rotatably connected to its member (24/591)
FOR 125 ....And operator therefor (24/592)
FOR 126 ....And position locking-means therefor (24/593)
FOR 127 .....Including notch or hump on projection axially biased by spring (24/594)
FOR 128 .....Including radially biased element engaging against relatively rotating surface at connection (24/595)
FOR 129 ....And spring for axially biasing projection (24/596)
FOR 130 ...Receiving member includes either movable connection between cavity components or variable configuration cavity (24/597)

DIGESTS

DIG 8 **PAPER CLIPS**
DIG 9 .Sheet material
DIG 10 .Wire
DIG 11 **ADHESIVE**
DIG 13 **WEIGHTED CLIP OR CLAMP**
DIG 16 **MULTIFLEX STRAP**
DIG 17 **MULTIFLEX AXIAL**
DIG 22 **JAW STRUCTURES, TEETH**
DIG 26 **FLUID PRESSURE**
DIG 28 **CO-PLANAR FLAT CLIP**
DIG 29 **LAUNDRY DEVICE**
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DIG 60 ...Receiving member includes either movable connection between cavity components or variable configuration cavity