

1.2	CONTACT LENS APPLICATOR	174	FOR AN ELECTRICAL CONDUCTOR OR
1.3	SANITARY HANDLER FOR PET DROPPINGS		REGULATOR (E.G., HOT-LINE STICK OR FUSE PULLER, ETC.)
1.4	.Pole mounted	25	HAND AND FINGER ATTACHMENTS
1.5	..Catcher	26	HAND-HOOK TYPE
3.5	MORTAR HAWK	175	.Pole mounted
3.6	ZIPPER PULLING TOOL	26.5	DISCHARGING HAND RECEPTACLES, TRAYS OR CAGES
4	BARREL-ROLLER TYPE		
5	EAR-CORN HOLDERS	27.1	DETACHABLE LIFTER
5.5	ROD-TYPE SUPPORTS AND HANGERS (E.G., TOBACCO, CONFECTION, ETC.)	28	.Pivoted graspers
		29	..Rim- and bottom-engaging
		30	..Axially extending handle
173	LIFTER FOR REMOVING ITEM (E.G., CAKE, TURKEY, ETC.) FROM CONTAINER	31.1	..Rim gripping jaws
		31.2	.Band type
6	PLATE TURNER, INCLUDING TRAY TURNER	32	.Bottom-engaging
		33	.Resilient
		34	.Sliding graspers
7	PANCAKE TURNER, ICE CUBE REMOVER, OR CAKE SERVER TYPE	49	HAND FORKS AND SHOVELS
		50	.Fork-tine shovel clearers
8	.Special turning element	50.5	..With grappling-type forks or shovels
8.5	CLOTHES TONGS		
8.6	CARPET STRETCHER	50.6	.Grappling type
132	WIRE ENGAGING AND CLAMPING MEANS FOR USE WITH CABLE TYPE WIRE TENSIONING APPARATUS	50.7	..Annularly arranged
		50.8	..With movable cooperating load- engaging member
133	.Wire engaging portion of means includes rotatable, generally circular disk or cylinder	50.9	...Fixed and movable members
		51	.Convertible and combined
		52	..Fork and rake
134	.Including threaded tightener	53.5	.Pivoted and adjustable head
135	.Including pivotally attached and hand engaged lever	54.5	.Snow shovel
		176	.Scoop
136	..Having curved, camming portrusion formed on lever	177	..With top cover
		178	..Two or more distinct handles
9	STOVE IMPLEMENTS	179	..Apertured for fluent material
10	.Combined	180	..One piece type
11	.Fire tong	55.5	.Fork
12	.Lid lifter	56	.Edge guards
13	..Pivoted jaw	57	.Handles
14	.Poker	58	..Auxiliary
15	HAND BARS AND HAND BARROWS	59	.Attachments
16	.Opposing jaws	60	..Foot pieces
17	.Cant hook type	181	.Pole mounted
18	.Railway coupling tools	61	SPEARS
19.2	BALL RETRIEVER	182	.Pole mounted
19.3	GRAPPLING GAFF	62	BRICK CARRIERS
22	FOR STORE GOODS	63.1	.Hoist-line frame
23	.Compound tool (i.e., for plural objects)	63.2	..Expanding grapple, fluid pressure inflatable
23.5	LAUNDRY STICKS	183	UTILIZING FLUID PRESSURE (E.G., VACUUM, ETC.)
24	COMPOUND TOOL (I.E., FOR PLURAL OBJECTS)	184	.For eggs or light bulbs

185	.Including diverse art structure (e.g., heater, light, sensor, vibrator, control, filter, etc.)	68.3	.Separable auxilliary hoisting means (e.g., sling, spreader frame)
64.2	.Venturi effect	67.1	HOISTLINE ATTACHED LOAD SUPPORTING FRAME
64.3	.By positive fluid stream directed against article	67.2	.L-frame
186	.Including a suction activation or deactivation device (e.g., switch, etc.)	67.21	..With center of gravity adjustment
187	..Mechanical-type evacuation (i.e., no pump)	67.22	..With load retainer
188	..Having a plurality of suction ports or apertures	67.3	.Load capturing supports
189	..Having a resilient seal or resilient sealing	67.31	..Pivotable about horizontal axis
65	.Frames	67.32	..Rotatable about vertical axis
65.5	MAGNET	67.33	..Horizontally slideable
190	.Pole mounted	67.4	.Underlying load spanning support and sling
66.1	UNDERWATER IMPLEMENT	67.41	..With load retainer
66.2	..With locating means	67.5	.Load leveling or shifting
81.1	SPACING HOIST BAR OR FRAME	74	HOIST-LINE SLINGS
81.2	..Adjustable to accommodate different size loads	75	.Latch release
81.21	..Telescopic	76	..Bottom
81.3	..With center of gravity adjustment	77	.Net
81.4	..With orienting means	82.1	HOOK, HOISTLINE, OR GRAB TYPE
81.41	..Load engaging guide	82.11	.Cable and hook tackle
81.5	.Load supporting units	82.12	..With center of gravity adjustment
81.51	..Pivotal about horizontal axis	82.13	..Opposed load grasping hooks
81.52	..Rotatable about vertical axis	82.14	..Choker type
81.53	...Twist lock	82.15	.Driven positioning mean
81.54	..Horizontally slideable	82.16	.Resilient suspension means (e.g., spring or fluid)
81.55	..Underlying load spanning support and sling	82.17	.Locking device (i.e., hook throat closure)
81.56	..Hook	82.18	..Overlapping loop forming hooks
81.6	.Load gripping units	82.19	..Locking arm swings in plane of hook
81.61	..Pivoted gripping element	82.2	...With pivoted latch
81.62	..Slideable gripping element	82.21	...With sliding latch
68.1	HOISTABLE RECEPTACLE	82.22	..Swivel locking arm
68.2	..With discharge or loading means	82.23	..Slidable locking arm
68.21	..Bottom or side discharge or loading	82.24	.Load releasing means
68.22	...Charging bucket, concrete bucket, hod, caldron, or well bailer type	82.25	..Parachute release means
68.23	....Identical twin sectors (e.g., clamshell type, etc.)	82.26	..Store ejector (e.g., aircraft carried)
68.24	....Twin doors	82.27	..Boat detaching
68.25	....Vertically sliding closure	82.28	..Plurality of balls
68.26	..Tilting discharge or loading	82.29	..Explosive release
68.27	...With trunnions	82.3	..Motor operated
		82.31	..Pivoted load support
		82.32	...Plurality of similar coacting supports
		82.33	...With pivoted latch
		82.34	...With sliding latch
		82.35	..Sliding load support

82.36	..Load ejecting	87.26	...Slidable jaws
191	.Pole mounted (e.g., boat grab, rope attacher, etc.)	87.28	...Rigid type
85	OVERHEAD BEAM HOOKS AND GRAPPLES	192	.With actuating system (e.g., magnetic, piston, etc.)
86.4	GRAPPLE	193	..Lewis type
86.41	..Load shifting	194	..Pipe collar engaging
86.42	..Interwoven contractable gripper (e.g., chinese fingers)	195	..Expanding (e.g., internal type, etc.)
86.1	..Well type	196	..Resilient jaws
86.11	..Basket-forming	197	..Fixed and moveable jaw
86.12	..Combined insertable and surrounding grappling means	198	..Pivoted jaws
86.13	..With separate lateral positioning means	199	...Automatic, including bowling pin handling
86.14	..With separate grapple-setting operator	200	...Separate cable operator
86.15	...Fluid pressure operator	201	...Load surrounding type
86.16	..With laterally movable grapple support	202	...Separate sliding operator
86.17	..With releasing means	203	...Cam-operated
86.18	...Excessive force-responsive	204	...Auxiliary operating handle
86.19	...Spring release means	205	...Crossed levers
86.2	...Grappling means latched in release position	206	...Hayfork-shaped type
86.21	....Lateral pocket and lug	207	..Slidable jaws
86.22	...Screw-threaded	208	..Inflatable
86.23	..With impact means	89	.Lewis
86.24	..Expanding grapple means	90	.Collar-engaging
86.25	...Cammed grappling means	91	..Rigid yoke
86.26	..Contracting grappling means (e.g., overshot)	93	.Expanding
86.27	...Inwardly biased grappling means with trip	94	..Cam-spread jaws
86.28	...Outwardly biased grappling means	95	...Pivoted
86.29	...Pivoted grappling means	96	...Slip wedge
86.3	...Cammed grappling means	97	..Pivoted
86.31	....Inwardly biased grappling means	98	...Hayfork type
86.32	...Resilient grappling means	98.1	..Inflatable
86.33	..Shoulder-engaging	99.1	.Resilient jaws
86.34	..Including washover or cutover means	99.2	..Hand-held (e.g., tweezer, tongs)
87.1	..Multiple grapples for multiple objects	100	..Separate sliding operator
87.11	..Confection stick handling (e.g., stick used for frozen confection containing water, flavoring, and coloring)	101	.Pivoted cam and hook
87.12	..Egg handler	102.1	.Socket and slip wedge
87.2	..Groove- or shoulder-engaging type	102.2	..Well pipe elevator
87.22	...Pivoted jaws	103.1	.Fixed and moveable jaw
87.24	....Link- or lever-operated	103.2	..Coil gripper
		104	..Pivoted jaw
		105	...Hayfork type
		106	.Pivoted jaws
		107	..Hayfork type
		108	...With auxiliary retainer
		109	...Latched
		110.1	..Automatic
		110.2	...Cam and follower
		111	..Separate cable operator
		112	...Suspension
		113	..Surrounding frame
		114	...Opposing load-engaging cams
		115	..Separate sliding operator

116	..Cam-operated	150	..Including means to tighten flaccid member about article
117	..Auxiliary operating handle	151	..Including rigid, semirigid or reinforced panel
118	..Crossed levers	152	..Having plural handles connected by flaccid receiver or support (e.g., sling)
119	...Tandem tongs	153	..And rigid handle or bar
119.1	.Slideable jaws	154	...Plural discrete flaccid supporting members suspended from handle or bar at spaced points
119.2	.Band type	155	...And connected by cross-strap or brace (e.g., harness)
119.3	.Inflatable	156	...Single web or strap (e.g., sling)
119.4	.Swing dampener	157	..Having parallel flaccid members forming article support
92	.Rigid gripper	158	.Carrier component positioned in aperture in article
120	HAYFORK TYPE	159	.Having plural discrete receivers or supports for spaced articles
121	.Corkscrew	160	..Separable supports
122	.Single tilting fork	161	..Vertical array
123	..With auxiliary retainer	162	..Having movably mounted or separable means to retain articles
124	..Latch release	163	...Common to plural receivers or supports
125	.Combined harpoon and fork	164	.Article gripping or retaining means actuated by lifting carrier
126	.Harpoon	165	.Including means to release article or to fasten carrier to or around article
127	..Mechanically spread barbs	166	..Resiliently biased
128	...Multiple	167	.Support or receiver movably, removably, or adjustably mounted to handle or handle portion (e.g., collapsible)
129	...Latch release	168	..Having slidable sections
130	...Latch release	169	..Having pivoted sections
131	SHIELD DEVICES	170	.Including handle having article or cord engaging means depending at each end
209	POLE MOUNTED IMPLEMENT	171	.Having cord or bail accommodating groove or passage along length of handle
210	.Extensible	172	.Tray
211	.U-shaped handler	212	UTILIZING AN ADHESIVE CONTACT
137	ARTICLE CARRIER GRIPPED AND CARRIED BY HAND	213	SPECIFIC END EFFECTOR FOR ROBOT ARM (E.G., ROBOT HAND, WAFER HANDLER, ETC.)
138	.Including means to cover book or sheet	214	INCLUDING BAG HOLDER
139	.Including support for optical instrument (e.g., camera holder)		
140	.Carrier for person		
141	.Convertible to, or useable as, different device or different type carrier		
142	..Having means for supporting or mounting carrier		
143	...Having plural receivers or supports for plural articles (e.g., rack)		
144	...Tray		
145	.Configured for complimentary projections on package or article		
146	.Having plural diverse receivers or supports for diverse articles		
147	..Including receiver or support for ski		
148	.Including helical spring or elastic material for engaging or supporting article		
149	.Having flaccid receiver, support or fastener for article		

215 **EYE- OR U-BOLT ATTACHMENT**
216 **WITH FREEZE, THAW CAPABILITY**
217 **ARROW OR HOOK EXTRACTOR**
218 **CHOPSTICKS**
2 **MISCELLANEOUS COMPOUND TOOL**
3 .Pliers or tong type
219 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

901 **PLATE LIFTING CLAMP**
902 **GRIPPING ELEMENT**
903 **BATTERY CARRIER**
904 **VEHICLE CARRIER**
905 **WIRELESS REMOTE CONTROL DEVICE**
906 **ATOMIC FUEL HANDLER**
907 **SENSOR CONTROLLED DEVICE**

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 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 **MISCELLANEOUS (294/1.1)**
FOR 101 **POLE MOUNTED IMPLEMENT (294/19.1)**
 HANDS FORKS AND SHOVELS (294/49)
FOR 102 .Scoop (294/55)
FOR 103 **VACUUM (294/64.1)**
 GRAPPLE (294/86.4)
FOR 104 .Magnet- or piston-controlled
 (294/88)