

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1912

JUNE 7, 2011

PROJECT M-6233

The following classification changes will be effected by this order:

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room</u>
Abolished:	294	1.1, 19.1, 55, 64.1, 88	3652	RND0000B15
Established:	294	173-219	3652	RND0000B15
Title Change:	294	2, 3, 5.5, 6, 7, 22, 23, 24, 27.1, 68.22, 68.23, 82.1	3652	RND0000B15
Position Change:	294	2, 3, 92	3652	RND0000B15
Indent Change:	294	19.2, 19.3, 22, 23, 23.5, 24	3652	RND0000B15

The following classes are also impacted by this order:

34, 37, 49, 56, 73, 81, 114, 131, 141, 156, 160, 209, 211, 221, 222, 248, 254, 279, 335, 414, 439

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 USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

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Editor(s):	Almeta Y. Quinn, Mildred Chisholm
Publications Specialist(s):	Louise Bogans

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
68.23Identical twin sectors (e.g., clamshell type, etc.)	82.26	..Store ejector (e.g., aircraft carried)
68.24Twin doors	82.27	..Boat detaching
68.25Vertically 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)

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

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<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
100/295	1	294/1.1	369
12/18.5	1	294/1.1	369
134/201	1	294/1.1	369
15/104.8	1	294/55	225
15/77	1	294/1.1	369
16/110.1	1	294/1.1	369
16/429	1	294/19.1	497
162/227	1	294/64.1	460
166/77.51	1	294/1.1	369
166/77.53	1	294/1.1	369
172/371	1	294/55	225
172/720	1	294/19.1	497
172/765	1	294/55	225
173/213	1	294/19.1	497
175/20	1	294/55	225
175/423	1	294/1.1	369
198/803.3	1	294/1.1	369
220/7	1	294/1.1	369
221/157	1	294/1.1	369
221/176	1	294/1.1	369
221/278	1	294/64.1	460
221/312 B	1	294/1.1	369
24/10 R	1	294/1.1	369
24/115 L	1	294/1.1	369
24/19	1	294/1.1	369
24/30.5 L	1	294/1.1	369
24/390	1	294/1.1	369
24/458	1	294/1.1	369
24/522	1	294/1.1	369
24/545	1	294/1.1	369
24/570	1	294/1.1	369
24/702	1	294/1.1	369
244/118.1	1	294/1.1	369
248/101	1	294/55	225
	6	294/1.1	369
248/110	1	294/19.1	497
248/113	2	294/19.1	497
248/363	1	294/64.1	460
248/451	1	294/1.1	369
248/99	2	294/55	225
	5	294/1.1	369
254/112	1	294/1.1	369
254/131	1	294/1.1	369
254/133 R	1	294/1.1	369

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254/134.3 R	1	294/19.1	497
254/243	1	294/1.1	369
254/264	1	294/1.1	369
254/389	1	294/1.1	369
258/1.2	1	294/1.1	369
267/120	1	294/64.1	460
269/21	1	294/64.1	460
269/71	2	294/88	418
271/103	2	294/64.1	460
271/104	3	294/64.1	460
271/106	4	294/64.1	460
271/90	3	294/64.1	460
271/97	1	294/64.1	460
271/98	5	294/64.1	460
279/3	11	294/64.1	460
280/47.26	2	294/55	225
29/806	1	294/1.1	369
294/1.2	1	294/1.1	369
294/100	17	294/19.1	497
294/103.1	1	294/1.1	369
	12	294/19.1	497
294/104	2	294/1.1	369
	76	294/19.1	497
294/105	2	294/19.1	497
294/106	1	294/1.1	369
	4	294/19.1	497
294/107	4	294/19.1	497
294/109	1	294/19.1	497
294/110.1	3	294/19.1	497
294/110.2	1	294/19.1	497
294/111	19	294/19.1	497
294/112	2	294/19.1	497
294/113	1	294/1.1	369
	1	294/19.1	497
294/114	1	294/19.1	497
294/115	13	294/19.1	497
294/116	5	294/19.1	497
294/117	1	294/19.1	497
294/119	2	294/19.1	497
294/119.1	3	294/19.1	497
294/119.2	1	294/1.1	369
	6	294/19.1	497
294/131	4	294/1.1	369
294/132	1	294/1.1	369

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<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
294/148	1	294/1.1	369
294/15	2	294/1.1	369
294/158	1	294/1.1	369
294/164	1	294/19.1	497
294/166	1	294/1.1	369
294/172	1	294/1.1	369
294/173	7	294/1.1	369
294/174	1	294/1.1	369
	53	294/19.1	497
294/175	1	294/1.1	369
	33	294/19.1	497
294/176	1	294/19.1	497
	51	294/55	225
294/177	2	294/1.1	369
	22	294/55	225
294/178	1	294/1.1	369
	15	294/55	225
294/179	2	294/19.1	497
	17	294/55	225
294/180	1	294/19.1	497
	5	294/1.1	369
	36	294/55	225
294/181	6	294/19.1	497
	39	294/55	225
294/182	1	294/1.1	369
	10	294/19.1	497
294/183	40	294/64.1	460
294/184	2	294/1.1	369
	8	294/64.1	460
294/185	75	294/64.1	460
294/186	79	294/64.1	460
294/187	1	294/19.1	497
	45	294/64.1	460
294/188	45	294/64.1	460
294/189	1	294/19.1	497
	1	294/64.1	460
	83	294/64.1	460
294/19.2	1	294/1.1	369
294/190	1	294/19.1	497
294/191	4	294/19.1	497
294/192	5	294/88	418
294/193	1	294/64.1	460
294/194	7	294/88	418
294/195	19	294/88	418

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294/196	11	294/88	418
294/197	53	294/88	418
294/198	104	294/88	418
294/199	12	294/88	418
294/200	7	294/88	418
294/201	7	294/88	418
294/202	36	294/88	418
294/203	37	294/88	418
294/205	8	294/88	418
294/206	1	294/88	418
	29	294/88	418
294/207	69	294/88	418
294/208	1	294/88	418
294/209	4	294/1.1	369
	34	294/19.1	497
294/210	1	294/19.1	497
	3	294/1.1	369
	53	294/19.1	497
294/211	1	294/1.1	369
	25	294/19.1	497
294/212	1	294/19.1	497
	20	294/1.1	369
294/213	2	294/19.1	497
	2	294/88	418
	42	294/1.1	369
294/214	10	294/55	225
	31	294/1.1	369
294/215	34	294/1.1	369
294/216	1	294/1.1	369
294/217	5	294/1.1	369
294/218	14	294/1.1	369
294/219	1	294/19.1	497
	54	294/1.1	369
294/24	7	294/19.1	497
294/25	2	294/1.1	369
294/26	1	294/1.1	369
294/27.1	1	294/19.1	497
294/31.2	1	294/1.1	369
294/49	1	294/1.1	369
294/5.5	2	294/1.1	369
	8	294/19.1	497
294/50.6	1	294/19.1	497
	1	294/55	225
294/50.7	1	294/19.1	497

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294/50.8	1	294/1.1	369
294/50.9	4	294/19.1	497
294/53.5	1	294/55	225
294/54.5	1	294/19.1	497
294/55.5	1	294/19.1	497
294/6	3	294/1.1	369
294/61	6	294/19.1	497
294/62	1	294/1.1	369
294/64.3	2	294/1.1	369
	4	294/64.1	460
294/65.5	2	294/19.1	497
294/67.1	4	294/1.1	369
294/68.26	2	294/55	225
294/7	8	294/1.1	369
294/74	1	294/19.1	497
	3	294/1.1	369
294/8.5	1	294/1.1	369
294/81.1	1	294/1.1	369
294/82.1	10	294/1.1	369
294/82.11	2	294/1.1	369
294/82.15	1	294/88	418
294/82.17	1	294/1.1	369
294/82.19	1	294/1.1	369
	1	294/19.1	497
294/82.2	1	294/19.1	497
294/82.21	1	294/19.1	497
294/82.24	1	294/19.1	497
294/82.33	1	294/19.1	497
294/82.35	1	294/19.1	497
294/86.1	1	294/1.1	369
	1	294/19.1	497
294/86.13	1	294/19.1	497
294/86.32	1	294/1.1	369
294/86.4	3	294/1.1	369
	6	294/19.1	497
294/89	1	294/1.1	369
294/92	2	294/1.1	369
	14	294/19.1	497
294/94	1	294/19.1	497
294/99.1	3	294/1.1	369
	16	294/19.1	497
294/99.2	1	294/1.1	369
	2	294/19.1	497
30/316	1	294/1.1	369

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

Generated by Data Control Division

<u>New</u> <u>Classification</u>	<u>Number</u> <u>of ORs</u>	<u>Source</u> <u>Classification</u>	<u>Number</u> <u>of ORs</u>
30/317	1	294/19.1	497
33/397	1	294/1.1	369
37/379	1	294/55	225
37/398	1	294/55	225
37/434	8	294/55	225
37/444	1	294/55	225
37/446	2	294/55	225
37/461	1	294/88	418
403/2	1	294/1.1	369
403/79	1	294/1.1	369
406/171	1	294/64.1	460
408/199	1	294/1.1	369
414/619	1	294/64.1	460
414/626	1	294/64.1	460
414/627	8	294/64.1	460
414/737	1	294/64.1	460
414/744.3	1	294/1.1	369
414/749.1	2	294/88	418
414/749.3	2	294/64.1	460
414/752.1	22	294/64.1	460
414/797	2	294/64.1	460
414/814	1	294/64.1	460
415/182.1	1	294/88	418
425/388	1	294/64.1	460
44/540	4	294/1.1	369
446/180	1	294/64.1	460
446/390	2	294/19.1	497
473/88	1	294/88	418
475/210	1	294/64.1	460
493/395	1	294/1.1	369
52/749.14	1	294/1.1	369
53/473	1	294/64.1	460
56/400.01	1	294/55	225
56/400.1	1	294/1.1	369
60/581	1	294/88	418
604/227	1	294/1.1	369
65/348	1	294/64.1	460
74/89.23	1	294/64.1	460
81/119	1	294/19.1	497
81/436	1	294/19.1	497
81/45	1	294/55	225
81/459	1	294/1.1	369
81/487	1	294/1.1	369
81/93	1	294/1.1	369

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

Generated by Data Control Division

<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
86/50	6	294/55	225
92/2	1	294/88	418
99/419	1	294/1.1	369
99/498	2	294/1.1	369

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/1.1	369	294/182	1
		294/216	1
294/64.1	460	294/188	45
294/88	418	294/199	12
294/1.1	369	294/211	1
294/19.1	497	294/219	1
294/64.1	460	294/189	1
294/19.1	497	248/113	2
		294/100	17
294/1.1	369	294/67.1	4
		254/133 R	1
		294/166	1
		294/5.5	2
294/64.1	460	414/814	1
294/55	225	172/371	1
294/19.1	497	294/103.1	12
294/1.1	369	294/92	2
294/64.1	460	53/473	1
294/1.1	369	408/199	1
294/19.1	497	294/114	1
294/1.1	369	294/99.1	3
294/19.1	497	294/117	1
294/1.1	369	254/389	1
		294/103.1	1
294/19.1	497	294/82.19	1
		294/24	7
294/1.1	369	294/113	1
		294/158	1
		15/77	1
		175/423	1
294/19.1	497	294/113	1
294/1.1	369	221/176	1
294/64.1	460	414/737	1
		271/98	5
294/19.1	497	294/190	1
		294/175	33
		294/181	6
294/1.1	369	294/184	2
		294/212	20
294/88	418	294/196	11
		294/195	19
		294/203	37
294/19.1	497	294/119.1	3
294/1.1	369	294/82.1	10
		414/744.3	1

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FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/19.1	497	294/82.33	1
		294/50.9	4
		294/27.1	1
294/1.1	369	12/18.5	1
		24/19	1
294/64.1	460	162/227	1
		279/3	11
294/1.1	369	248/451	1
294/55	225	294/68.26	2
294/1.1	369	294/8.5	1
294/88	418	60/581	1
294/19.1	497	294/105	2
		294/107	4
		294/86.13	1
294/1.1	369	403/2	1
294/88	418	294/82.15	1
294/19.1	497	294/187	1
		294/174	53
294/55	225	294/180	36
294/64.1	460	294/186	79
294/88	418	294/202	36
294/1.1	369	294/31.2	1
294/19.1	497	294/119.2	6
294/64.1	460	414/619	1
294/1.1	369	24/702	1
		294/119.2	1
294/19.1	497	294/86.4	6
294/1.1	369	221/312 B	1
294/19.1	497	16/429	1
294/1.1	369	294/7	8
		493/395	1
		24/115 L	1
		294/82.19	1
294/19.1	497	294/82.2	1
294/88	418	92/2	1
294/1.1	369	294/64.3	2
		294/86.1	1
294/64.1	460	414/752.1	22
294/1.1	369	294/172	1
294/64.1	460	269/21	1
294/55	225	81/45	1
294/1.1	369	294/62	1
		24/30.5 L	1
294/19.1	497	294/164	1
294/1.1	369	294/131	4

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/19.1	497	173/213	1
294/1.1	369	294/19.2	1
294/88	418	294/198	104
294/19.1	497	294/213	2
		294/182	10
294/88	418	294/192	5
294/64.1	460	294/185	75
294/1.1	369	294/219	54
294/19.1	497	294/191	4
294/1.1	369	294/174	1
294/64.1	460	294/187	45
294/1.1	369	294/175	1
		294/25	2
294/19.1	497	294/119	2
294/55	225	175/20	1
294/1.1	369	248/101	6
294/19.1	497	294/86.1	1
		294/104	76
294/1.1	369	248/99	5
294/55	225	294/53.5	1
294/1.1	369	99/498	2
		220/7	1
		24/570	1
294/64.1	460	271/104	3
		294/64.3	4
294/19.1	497	294/109	1
		81/119	1
294/64.1	460	74/89.23	1
		475/210	1
294/55	225	56/400.01	1
294/1.1	369	294/15	2
		81/459	1
294/64.1	460	248/363	1
294/55	225	294/214	10
294/1.1	369	294/217	5
		294/180	5
294/88	418	294/200	7
294/55	225	294/179	17
294/1.1	369	294/218	14
294/19.1	497	294/180	1
294/1.1	369	294/177	2
294/55	225	294/178	15
294/88	418	294/201	7
294/1.1	369	294/215	34
294/64.1	460	294/184	8

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/19.1	497	294/189	1
294/1.1	369	294/99.2	1
		294/74	3
294/19.1	497	294/55.5	1
294/1.1	369	294/82.11	2
294/55	225	37/444	1
294/19.1	497	294/106	4
294/1.1	369	294/50.8	1
		294/81.1	1
294/55	225	248/101	1
294/1.1	369	24/10 R	1
294/55	225	86/50	6
294/1.1	369	29/806	1
		254/131	1
294/19.1	497	294/92	14
294/1.1	369	294/82.17	1
294/19.1	497	294/50.7	1
294/64.1	460	414/749.3	2
294/1.1	369	294/104	2
		258/1.2	1
294/19.1	497	294/110.1	3
		172/720	1
		446/390	2
		254/134.3 R	1
294/1.1	369	81/93	1
294/55	225	37/379	1
294/64.1	460	414/797	2
294/19.1	497	294/82.35	1
294/1.1	369	16/110.1	1
		294/1.2	1
		294/132	1
294/19.1	497	81/436	1
294/1.1	369	198/803.3	1
294/64.1	460	221/278	1
294/1.1	369	52/749.14	1
294/88	418	415/182.1	1
294/64.1	460	414/626	1
		406/171	1
		294/183	40
294/55	225	294/181	39
294/88	418	294/197	53
294/19.1	497	294/176	1
294/1.1	369	294/178	1
294/64.1	460	294/193	1
294/1.1	369	294/214	31

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/19.1	497	294/179	2
294/88	418	294/207	69
294/19.1	497	294/210	53
		294/211	25
294/88	418	294/213	2
294/64.1	460	271/103	2
294/19.1	497	294/94	1
294/55	225	15/104.8	1
294/19.1	497	294/110.2	1
294/1.1	369	24/522	1
294/55	225	37/398	1
294/64.1	460	271/97	1
294/1.1	369	100/295	1
		294/106	1
294/19.1	497	294/82.21	1
294/1.1	369	134/201	1
		221/157	1
		294/86.4	3
294/88	418	37/461	1
294/19.1	497	294/65.5	2
294/55	225	248/99	2
294/1.1	369	294/86.32	1
294/19.1	497	294/115	13
		294/116	5
294/64.1	460	271/90	3
294/88	418	414/749.1	2
294/1.1	369	99/419	1
294/19.1	497	294/111	19
294/64.1	460	446/180	1
294/19.1	497	294/112	2
294/64.1	460	294/189	83
294/19.1	497	294/209	34
294/1.1	369	294/210	3
294/55	225	294/176	51
294/88	418	294/194	7
294/1.1	369	294/173	7
294/88	418	294/205	8
		294/206	1
294/19.1	497	294/210	1
294/1.1	369	24/390	1
294/88	418	269/71	2
294/19.1	497	294/99.2	2
294/1.1	369	254/264	1
294/55	225	294/50.6	1
294/1.1	369	294/26	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
294/55	225	37/434	8
294/1.1	369	294/148	1
		244/118.1	1
		56/400.1	1
		81/487	1
294/55	225	37/446	2
294/1.1	369	294/6	3
294/64.1	460	65/348	1
294/88	418	473/88	1
294/1.1	369	604/227	1
294/64.1	460	425/388	1
294/1.1	369	294/49	1
294/55	225	280/47.26	2
294/1.1	369	294/89	1
		24/458	1
294/64.1	460	271/106	4
294/55	225	294/177	22
294/88	418	294/206	29
294/1.1	369	294/209	4
294/19.1	497	294/212	1
294/88	418	294/208	1
294/1.1	369	294/213	42
294/55	225	172/765	1
294/19.1	497	294/74	1
294/1.1	369	254/112	1
294/19.1	497	30/317	1
		294/82.24	1
294/1.1	369	166/77.53	1
294/19.1	497	294/61	6
		294/54.5	1
294/1.1	369	166/77.51	1
		44/540	4
294/64.1	460	267/120	1
		414/627	8
294/19.1	497	294/5.5	8
		294/99.1	16
294/1.1	369	30/316	1
		254/243	1
		403/79	1
		33/397	1
		24/545	1
294/19.1	497	294/50.6	1
		248/110	1

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

<u>Class</u>	<u>USPC</u> <u>Subclass</u>	<u>Subclass</u>	<u>IPC</u> <u>Notation</u>
294	173	A47J	45/10
	174, 175	B66F	19/00
	176	A47F	13/08
	177		
	178		
	179		
	180		
	181	B66F	19/00
	182		
	183	A47J	45/00
	184	B25J	15/06
	185		
	186		
	187		
	188		
	189		
	190		
	191	B66F	19/00
	192	B25J	15/02
	193		
	194		
	195		
	196		
	197		
	198		
	199		
	200		
	201		
	202		
	203		
	204		
	205		
206			
207			
208			
209	B66F	19/00	
210			
211			
212			
213			
214			
215			
216			
217			
218			
219			

CLASS 34 – DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS

Subclass 240: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 5.5 and 23.5 for supporting rods used in handling.

CLASS 37 – EXCAVATING

Subclass 265: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 54.5 for a hand-operated snow shovel which may have relatively abbreviated lips on three sides and subclass 176 for a general purpose hand-operated scoop.

Subclass 411: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 68.1-68.3 for a hoistable receptacle and subclass 176 for a scoop.

CLASS 49 – MOVABLE OR REMOVABLE CLOSURES

Subclass 461: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 209-211 for a pole-like device, per se, for manipulating an object at a distance.

CLASS 56 – HARVESTERS

Subclass 332: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 209-211 for pole structures adapted for handling articles at a distance and see the search there noted.

CLASS 73 – MEASURING AND TESTING

Subclass 426: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 176 for scoops.

CLASS 81 – TOOLS

Subclass 53.1: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 174 for pole-like structures adapted for handling an electrical conductor at a distance.

CLASS 114 – SHIPS

Subclass 221: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 191 for pole-mounted handling implements which do not have exclusive disclosure for use onboard a ship.

Subclass 230.25: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, appropriate subclasses, especially subclasses 82.1-82.36 for devices including a hook with a hoist-line or draft-line terminal; subclasses 86.4-119.4 for a grapple, per se; and subclass 191 for a pole-mounted implement.

Subclass 296: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for vacuum cup elements, per se, as well as other vacuum-operated load engagers.

CLASS 131 – TOBACCO

Subclass 259: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

CLASS 141 – FLUENT MATERIAL HANDLING, WITH RECEIVER OR RECEIVER
COACTING MEANS

Subclass 108: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 27.1-34 and other appropriate subclasses for receptacle holders having handles thereon; and subclass 176 for scoops, per se.

Subclass 358: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 27.1-34 and other appropriate subclasses for supports for engaging receptacles and having handles whereby the receptacle may be manipulated in the same manner as a scoop, the support not serving as a material flow path; and subclass 176 for scoops, per se.

CLASS 156 – ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL
MANUFACTURE

Subclass 47: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 132 for hand and hoist-line implements used in placing electrical cable. (See the (14) Note in this subclass (47) above for installing or laying conductors, etc.)

CLASS 160 – FLEXIBLE OR PORTABLE CLOSURE, PARTITION, OR PANEL

Subclass 330: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 209-211 for devices for handling curtain poles, with or without the curtain hanging thereon.

Subclass 333: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 209-211 for independent devices adapted for grasping and moving a pole, with or without the curtain thereon.

CLASS 209 – CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS

Subclass 702: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 183 for handling implements utilizing vacuum-cup elements.

CLASS 211 – SUPPORTS: RACKS

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

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 5.5 for tobacco hangers and subclasses 87.1-87.28 and 159 for racks in the form of article carriers having handles.

CLASS 221 – ARTICLE DISPENSING

Subclass 211: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for handling, hand and hoist-line implements in which the load-engaging means is in the nature of a vacuum-cup element.

CLASS 222 – DISPENSING

Subclass 174: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 209-211 for pole structures having handling implement terminals and see the notes to the definitions thereof for related devices.

Subclass 393: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 50 and 50.5 for fork and shovel clearers and subclass 176 for scoops.

CLASS 248 – SUPPORTS

Subclass 363: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for vacuum hoist implements.

CLASS 254 – IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

Subclass 134.3: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 132 for cable-handling implements.

CLASS 279 – CHUCKS OR SOCKETS

Subclass 3: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for vacuum-type devices and subclass 192 for grapple-actuating system using a piston.

CLASS 294 – HANDLING: HAND AND HOIST-LINE IMPLEMENTS

Definitions Abolished

Subclasses

1.1, 19.1, 55, 64.1, 88

Definitions Modified

Subclass 2: In the subclass title, after “COMPOUND”

Delete:

IMPLEMENT

Insert:

TOOL

Subclass 3: In the subclass title

Delete:

Plier

Insert:

Pliers

Subclass 5.5: In the subclass title, after “HANGERS”

Insert:

(E.G., TOBACCO, CONFECTION, ETC.)

Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for rods or poles peculiarly adapted for handling articles at a distance.

Subclass 6: In the subclass title, after “PLATE”

Delete:

TURNERS

Insert:

TURNER, INCLUDING TRAY TURNER

Subclass 7: In the subclass title, after “PANCAKE”

Delete:

TURNER TYPE

Insert:

TURNER, ICE CUBE REMOVER, OR CAKE SERVER TYPE

Subclass 19.2: After the subclass number

Delete:

The subclass title

Insert:

BALL RETRIEVER:

After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under the class definition.

Subclass 19.3: After the subclass number

Delete:

The subclass title

Insert:

GRAPPLING GAFF:

After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under the class definition.

Subclass 22: After the subclass number

Delete:

The subclass title

Insert:

FOR STORE GOODS:

After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under the class definition.

Subclass 23: In the subclass title, after “tool”

Insert:

(i.e., for plural objects)

Subclass 23.5: After the subclass number

Delete:

The subclass title

Insert:

LAUNDRY STICKS:

After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under the class definition.

Subclass 24: After the subclass number

Delete:

The subclass title

Insert:

COMPOUND TOOL (I.E., FOR PLURAL OBJECTS):

After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under the class definition.

Subclass 27.1: In the subclass title, after “DETACHABLE”

Delete:

PLATE AND RECEPTABLE

Subclass 49: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 55

Insert:

176, for hand implements constructed with a bottom, three sides, and an open fourth side, and used like scoops (see (1) Note above).

Subclass 54.5: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 55

Insert:

176, for a general purpose, manually operated scoop.

Subclass 64.2: After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under subclass 183.

Subclass 64.3: After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under subclass 183.

Subclass 65: After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under subclass 183.

Subclass 65.5: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 88

Insert:

183, for grapples actuated by a magnetic system.

Subclass 68.22: After the subclass number

Delete:

The subclass title

Insert:

Charging bucket, concrete bucket, hod, caldron, or well bailer type:

Subclass 68.23: After the subclass number

Delete:

The subclass title

Insert:

Identical twin sectors (e.g., clamshell type, etc.):

Subclass 81.6: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 64.1+

Insert:

183, for vacuum-type gripping units, per se.

Subclass 82.1: After the subclass number

Delete:

The subclass title

Insert:

HOOK, HOISTLINE, OR GRAB TYPE:

Subclass 86.1: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for devices having a pole and a grappling means attached thereto.

Subclass 86.14: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 88

Insert:

183, for grapples of general utility having magnetic means to operate the grapple.

Subclass 86.4: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for pole-attached grapples.

Subclass 89: After the subclass title

Delete:

The hierarchical statement

Insert:

This subclass is indented under subclass 86.4.

Subclass 100: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for poles having handling devices thereon.

Subclass 103.1: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for pole-mounted implements.

Subclass 115: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 19.1+

Insert:

209, for pole-mounted implements.

Subclass 137: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 64.1+

Insert:

183, for carriers which hold an article by suction.

Subclass 165: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 64.1+

Insert:

183, for carriers employing vacuum to secure an article thereon.

Definitions Established

- 173 LIFTER FOR REMOVING ITEM (E.G., CAKE, TURKEY, ETC.) FROM CONTAINER:**
This subclass is indented under the class definition. Handling tool for taking out objects, usually food, from a receptacle.
- (1) Note. Subject matter in this subclass includes taking prepared food items from, for example, a carrying box or a baking pan.
- 174 FOR AN ELECTRICAL CONDUCTOR OR REGULATOR (E.G., HOT-LINE STICK OR FUSE PULLER, ETC.):**
This subclass is indented under the class definition. Handling tool for a current/voltage carrying device or a current/voltage control device.
- SEE OR SEARCH CLASS:
- 81, Tools, subclass 3.8 for devices including a pole structure provided with means for inserting or removing a fuse in a fuse block.
- 175 Pole mounted:**
This subclass is indented under subclass 26. The generally J-shaped hand implement is attached to an elongated rigid handle.
- 176 Scoop:**
This subclass is indented under subclass 49. The handled implement has a substantial portion of the blade in a hemispherical or bowl-like shape.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
- 54.5, for a snow shovel.
- SEE OR SEARCH CLASS:
- 37, Excavating, subclasses 264 and 265 for snow or ice removing or grooming by portable scoop.
- 177 With top cover:**
This subclass is indented under subclass 176. The implement hemispherical or bowl-like portion includes a lid.
- 178 Two or more distinct handles:**
This subclass is indented under subclass 176. The implement includes at least two hand-grippable pieces.

179 Apertured for fluent material:

This subclass is indented under subclass 176. The implement hemispherical or bowl-like portion has holes, openings, slots, etc., generally for handling solids of a size larger than the holes, openings, slots, etc.

(1) Note. Classification in this subclass would include pet waste scoops.

180 One piece type:

This subclass is indented under subclass 176. The implement is made from a single blank or a single material.

181 Pole mounted:

This subclass is indented under subclass 49. The bladed, hand implement handle is an elongated rigid member.

182 Pole mounted:

This subclass is indented under subclass 61. The tined, hand implement handle is an elongated rigid member.

183 UTILIZING FLUID PRESSURE (E.G., VACUUM, ETC.):

This subclass is indented under the class definition. The load is held by the action of a force generated using a gas, usually a negative force.

SEE OR SEARCH THIS CLASS, SUBCLASS:

1.2, for contact lens applicator which uses a suction-type grip.

SEE OR SEARCH CLASS:

- 4, Baths, Closets, Sinks, and Spittoons, subclasses 255.11 and 255.12 for a plunger.
- 147, Coopering, subclass 4 for a barrel compressing machine.
- 156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclass 569 for vacuum pickers in combination with a laminating device.
- 248, Supports, subclass 309.3 for a bracket holding articles by suction, subclass 362 for a vacuum hold down, and subclass 363 for a vacuum support.
- 271, Sheet Feeding or Delivering, subclass 5 for a feeding and delivering pneumatic separator and conveyor, subclass 11 for a feeding pneumatic separator and conveyor, subclass 90 for a feeding pneumatic separator, and subclass 98 for sheet removal by suction.
- 279, Chucks or Sockets, subclass 3 for chucks which hold workpieces, etc. by vacuum.
- 414, Material or Article Handling, subclass 627 for hoist unloading by suction gripper, subclass 737 for vertically swinging load support suction grab, subclass

752.1 for a load carried along a horizontal linear path suction gripper, and subclass 797 for unstacking by suction.

- 184 For eggs or light bulbs:**
This subclass is indented under subclass 183. Handling tool utilizing the force, usually negative, to move a shelled embryo or illumination device.
- 185 Including diverse art structure (e.g., heater, light, sensor, vibrator, control, filter, etc.):**
This subclass is indented under subclass 183. Vacuum handling tool in which structure classified outside of this class is added to the vacuum handling tool.
- 186 Including a suction activation or deactivation device (e.g., switch, etc.):**
This subclass is indented under subclass 183. Vacuum handling tool including an on-off device for the generated force.
- 187 Mechanical-type evacuation (i.e., no pump):**
This subclass is indented under subclass 186. Vacuum handling tool in which the generated force is on or off due to a simple machine, e.g., a lever.
- 188 Having a plurality of suction ports or apertures:**
This subclass is indented under subclass 183. Vacuum handling tool having more than one hole, perforation, opening, etc. for the generated force.
- 189 Having a resilient seal or resilient sealing:**
This subclass is indented under subclass 183. Vacuum handling tool having a flexible load contacting surface.
- 190 Pole mounted:**
This subclass is indented under subclass 65.5 Magnet-handling tool attached to an elongated rigid member.
- 191 Pole mounted (e.g., boat grab, rope attacher, etc.):**
This subclass is indented under subclass 82.1. Hoist-line or grab hook handle is an elongated rigid member.
- 192 With actuating system (e.g., magnetic, piston, etc.):**
This subclass is indented under subclass 86.4. Devices in which the operation of the grapple is caused by, for example, an electrical apparatus such as a device that utilizes a bi-polar, attractive force of materials or a mechanical apparatus such as a fluid-operated, movable device, usually inside a cylinder, to convert pressure into mechanical motion.

SEE OR SEARCH THIS CLASS, SUBCLASS:

86.15, for grappling means having fluid pressure means to set the grappling means that functions in a well bore.

SEE OR SEARCH CLASS:

37, Excavating, subclasses 182 and 461 for piston-controlled grappling means specialized to excavating.

335, Electricity: Magnetically Operated Switches, Magnets, and Electromagnets, subclasses 285-295 for work or object holding magnetic devices.

193 Lewis type:

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple is inserted in holes cut in stone blocks.

194 Pipe collar engaging:

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple engages shoulders on tubular coupling members or shoulders on tubular members, usually having no gripping action on the tubular members.

SEE OR SEARCH CLASS:

166, Wells, subclass 77.1 for well pipe handling devices.

195 Expanding (e.g., internal type, etc.):

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple which attains a larger overall perimeter or circumference, usually engaging the inside of a generally hollow load.

196 Resilient jaws:

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple having spring-armed grasping members which depend upon the material flexibility to open or close the grasping members.

197 Fixed and moveable jaw:

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple where one grasping member is stationary and the other grasping member is displaceable in relation to the handling terminal.

198 Pivoted jaws:

This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple in which the grasping members are hinged.

- 199 Automatic, including bowling pin handling:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple having an operating member that, upon contact with a load, activates the grasping members without user intervention.
- 200 Separate cable operator:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple in which the operation of the grasping members is caused by a supplemental wire, line, rope, etc.
- 201 Load surrounding type:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple in which the grasping members encircle a load.
- 202 Separate sliding operator:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple having a distinct member that moves along the grasping members' support and is connected to the grasping members.
- 203 Cam-operated:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple in which the grasping members are moved by a generally eccentric-shaped member.
- 204 Auxiliary operating handle:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple having an additional, independent hand-gripped bar or rod.
- 205 Crossed levers:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple in which the grasping elements are on the ends of crossed bars or rods, centrally fulcrumed or pivoted.
- 206 Hayfork-shaped type:**
This subclass is indented under subclass 198. Piston- or magnetic-actuated grapple in which the opened grasping members are generally U-shaped.
- 207 Slidable jaws:**
This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple in which the grasping members move along generally linear guides.
- 208 Inflatable:**
This subclass is indented under subclass 192. Piston- or magnetic-actuated grapple wherein the grasping force is produced by fluid pressure into a resilient, inflatable member.
- 209 POLE MOUNTED IMPLEMENT:**
This subclass is indented under the class definition. Devices comprising a handling implement mounted on an elongated rigid member.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 86.1, for grappling devices peculiarly adapted to function in a well bore or similar earth opening.

86.4, for grappling devices not clearly specialized as handling poles.

SEE OR SEARCH CLASS:

81, Tools, subclass 53.1 for wrenches comprising pole-like handle structures and peculiarly adapted for engaging work at a distance.

- 210 Extensible:**
This subclass is indented under subclass 209. Elongated handle implement wherein the member can be made longer.
- 211 U-shaped handler:**
This subclass is indented under subclass 209. Elongated handle implement wherein the article handling portion looks like the letter "U."
- 212 UTILIZING AN ADHESIVE CONTACT:**
This subclass is indented under the class definition. Handling device that uses a sticky surface to hold articles.
- 213 SPECIFIC END EFFECTOR FOR ROBOT ARM (E.G., ROBOT HAND, WAFER HANDLER, ETC.):**
This subclass is indented under the class definition. Handling device in which the load-handling portion is on the outermost section of a mechanical handling machine.
- 214 INCLUDING BAG HOLDER:**
This subclass is indented under the class definition. Handling device with structure for a generally flexible container.
- 215 EYE- OR U-BOLT ATTACHMENT:**
This subclass is indented under the class definition. Handling device including fastening means in the shape of a circle or the letter "U."
- 216 WITH FREEZE, THAW CAPABILITY:**
This subclass is indented under the class definition. Handling device including an apparatus to lower the handler temperature below or above 32 degrees F.
- 217 ARROW OR HOOK EXTRACTOR:**
This subclass is indented under the class definition. Handling device specialized to remove a shaft with a generally pointed head or a J-shaped structure.

218 CHOPSTICKS:

This subclass is indented under the class definition. Handling device being two hand-held generally rod-shaped members.

219 MISCELLANEOUS:

This subclass is indented under the class definition. Devices not provided for under more specific titles.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this class for specific correspondences. [Note: The titles and definitions for *indented* art collections include all the details of the one(s) that are hierarchically superior.]

FOR 100 MISCELLANEOUS (294/1.1):

This foreign art collection is indented under the class definition. Foreign art collection for devices not provided for under more specific titles.

FOR 101 POLE MOUNTED IMPLEMENT (294/19.1):

This foreign art collection is indented under the class definition. Foreign art collection for devices comprising a handling implement mounted on an elongated handle for the handling of articles at a distance.

FOR 102 Scoop (294/55):

This foreign art collection is indented under unnumbered placeholder 294/49. Foreign art collection for implements designed to facilitate the handling of bulk material and usually provided with bowl-like load-engaging terminals or with blades having upturned side and rear edges.

FOR 103 VACUUM (294/64.1):

This foreign art collection is indented under the class definition. Foreign art collection for devices depending upon the action of a negative pressure to handle a load.

FOR 104 Magnet- or piston-controlled (294/88):

This foreign art collection is indented under unnumbered placeholder 294/86.4. Foreign art collection for devices in which the operation of the grapple is caused by magnetic means or fluid-operated pistons.

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

Class Definition: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 65.5 and 192 for grappling devices using a magnetic actuating system.

Subclass 285: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 65.5 and 192 for grappling devices using a magnetic actuating system.

CLASS 414 – MATERIAL OR ARTICLE HANDLING

Subclass 737: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for vacuum and magnetic means associated with implements for handling articles.

Subclass 752.1: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 183 for handling implements adapted to employ the use of a vacuum.

Subclass 793: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclasses 183-65 for implements adapted to employ the use of a vacuum.

Subclass 797: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 183 for implements adapted to employ the use of a vacuum.

CLASS 439 – ELECTRICAL CONNECTORS

Class Definition: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 294

Insert:

294, Handling: Hand and Hoist-Line Implements, subclass 174 for a device for placing or removing a coupling part connector from a distance. (See this class (Class 439), “Combination of an Electrical Connector With Another Device” above.)