2.01	EXPANDING	8	LONGITUDINAL SCREW CLAMP
2.01	.Collet type	9.1	SOCKET TYPE
2.02	Fixed jaws and moving cam	14	.Multiple alternative
2.03	Fixed cam and moving jaws	16	.Self-centering of floating
2.05	.Jaws mounted on flexible member;	17	Radially reciprocating jaws
2.03	i.e., diaphragm	18	Transverse holder and setscrew
2.06	.Fluid-pressure actuator	19	.Lost motion
2.07	Directly expanding jaws	19.1	Swinging external yoke or
2.08	Jaw is expansible chamber;		detent
2.00	i.e., bladder type	19.2	Rotary socket
2.09	Expanding jaws via mechanical	19.3	Rotary socket
	connection	19.4	Spreading elements
2.1	.Axially moving actuator	19.5	Key retainer
2.11	Wedge	19.6	Sleeve type retainer
2.12	Internal cone	19.7	Sleeve in socket
2.13	With jaw positively	20	.Fluid-conduit drill holding
	interlocked with wedge; e.g.,	20.1	.Feed type
	dovetail or T-slot		.Self-grasping
2.14	With resilient means		Yielding grasping jaws
	contacting nonresilient jaw	22	Ball or roller
2.15	Constricting band, annulus,	23.1	Spring jaws
	or clip	24	Yielding detent
2.16	Toggle		One-way-clutch type
2.17	Axially compressible element	28	Wedge
	expands radially	29	Side detent
2.18	Lever	30	Ball or roller
2.19	.Rotary actuator	32	.Conical clamp threaded in socket
2.2	Clutch or self-actuating type	33	.Transversely oscillating jaws
2.21	.Jaw structure	34	Screw actuated
2.22	Resilient	35	.Pivoted jaws
2.23	Ball or roller		Moving-cam actuator
2.24	Pivoted	36	Threaded cam sleeve
3	VACUUM	37	Reciprocating cam sleeve
4.01	WITH FLUID-PRESSURE ACTUATOR	38	Fixed cam and moving jaws
4.02	.With measuring, indicating or	39	Axial screw actuator
	control means	40	Threaded-sleeve actuator
4.03	.Jaw is expansible chamber; i.e.,		.Resilient split socket
	bladder type	42	Threaded cam sleeve
4.04	.Pneumatic type	43	Reciprocating cam sleeve
4.05	.Jaws mounted on flexible member;	43.1	Unitary
	i.e., diaphragm	43.2	Split at one end only
4.06	.Socket type	43.3	Transverse screw actuator
4.07	Collet	43.4	Cam actuator
4.08	Fixed cam and moving jaws	43.5	Split end to end
4.09	Moving cam and fixed jaws	43.6	With jaw pads or insert
4.1	Radially reciprocating jaws	43.7	Nonresilient member biased by a
4.11	Fluid pressure directly moves		resilient member
	jaws	43.8	Resilient member reinforced by
4.12	Fluid pressure moves jaws via	40.	another resilient member
_	mechanical connection	43.9	.With means to exclude
5	ANGULARLY ADJUSTABLE OR INDEXING		contaminants; e.g., seal,
6	ECCENTRIC	1.1	shield
7	THREADED GRIP	44	.One movable side

45	Sleeved	81	Rotary cam sleeve
46.1	.Spring biased jaws	82	Reciprocating sleeve
46.2	Unitary	83	Set screw
46.3	Split at one end only	84	U-clamp
46.4	Split at both ends	85	Plural bolt
46.5	Split at both chas	86	Single transverse bolt
46.6	With jaw pads or insert	87	Longitudinal clamping wedge
46.7	Nonresilient member biased by a	89	.Shouldered-tang holding
40.7	resilient member	90	Cap
46.8	Resilient member reinforced by	91	Screw
40.0	another resilient member	93	Screw .Tang offset within socket
46.9	With means to exclude	94	.Tang offset without socket
40.5	contaminants; e.g., seal,	95	.Bottomless
	shield	96	
	Moving-cam actuator	96	Friction grip
47	Threaded sleeve and wedge	99	.Transverse pin
48	Threaded cam sleeve		.Screw threaded
49	Loose jaws	100	
50	-	101	Threaded sleeve
51	Reciprocating cam sleeve	102	.Friction grip
52	Fixed cam and moving jawsThreaded-sleeve actuator	103	Drill type
53	Axial screw actuator	104	.Barbed or pronged tang
		105	.Molded or cast-in tang
54	Loose jaws	105.1	.Adjustable length or size
55	Loose jaws	106	PIVOTED JAW
E.C.	Moving-cam actuator	107	.Cam-sleeve actuated
56	Threaded cam sleeve	108	.Internal-cone actuated
57	Reciprocating cam sleeve	109	.Toggle actuated
58	Fixed cam and moving jaws	110	RADIALLY RECIPROCATING JAWS
59	Threaded sleeve and body	111	.With indicator
60	.Obliquely guided reciprocating	112	.Transverse-screw actuated
<i>C</i> 1	jaws	113	Annular rack
61	Threaded sleeve and jaw	114	.Spiral cam or scroll actuated
62	Conical sleeve	115	Worm
63	Threaded central cone and jaw	116	Bevel pinion
64	Threaded sleeve and body	117	.Rack-and-pinion actuated
65	Reciprocating jaw advancing	118	.Toggle actuated
	sleeve	119	.Lever actuated
66	.Radially reciprocating jaws	120	Internal cone
67	Transverse-screw actuated	121	.Wedge actuated
68	Interlaced jaws	122	.External-cone actuated
	Moving-cam actuator	123	.Jaws
69	Threaded cam sleeve	124	With means to facilitate jaw
70	Threaded sleeve and wedge		removal
71	Rotary eccentric-cam sleeve	125	WITH SAFETY FEATURE
72	Roller and rocking jaw	126	WITH MEASURING, INDICATING OR
73	Worm actuated		CONTROL MEANS
74	Reciprocating cam sleeve	127	DOUBLE ACTING
75	Ball or roller jaws	128	WITH MAGNETIC OR ELECTROSTATIC
76	.Side detent		MEANS
77	Pivoted or rotary	129	BY CENTRIFUGAL FORCE
78	Sleeved	130	.To counterbalance jaws
79	Spring	131	.To grip tool or workpiece
80	Sleeved	132	COMPENSATION FOR ECCENTRICITY

133	WITH CENTERING MEANS
134	SEPARATE CHUCK-ACTUATING POWER
	SOURCE
135	.Self-contained
136	FOR GEAR OR SPLINE MOLDING
137	MORE THAN ONE SET OF GRIPPING
	MEANS
138	TORSION MANDREL
139	JAWS MOUNTED ON FLEXIBLE MEMBER;
	I.E., DIAPHRAGM
140	MEANS TO PREVENT JAW LOOSENING
141	MEMBER APPLIES AXIAL FORCE
	COMPONENT
142	ACCESSORY OR COMPONENT
143	.Adapter
144	Drive conversion
145	For particular tool or
	workpiece
146	.Sliding cam chuck actuator
147	.Chuck key
148	Safety feature; e.g., ejector,
	interlock
149	Key holding or attaching means
150	Nonseparable or built-in
151	.Padded or cushioned jaw
152	.Jaw insert
153	Machinable jaw
154	Locking or positioning means
155	.Tool or workpiece ejector
156	.Tool or work stop or locator
157	.Protection means; e.g., cover,
	seal, overstress prevention,
4 = 6	air blast
158	MISCELLANEOUS

CROSS-REFERENCE ART COLLECTIONS

900	ADAPTED FOR AUTOMATIC TOOL
	CHANGER
901	CHUCK OR CHUCK JAW CHANGING MEANS
902	KEYLESS TYPE SOCKET
903	NEEDLE ROLLER TYPE SOCKET
904	QUICK CHANGE SOCKET
905	.With ball detent
906	SELF GRASPING SOCKET
907	WASHER TYPE JAW OR ACTUATOR

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