1	61 TOTAL DEL FILOR	42	ROOF OR FLOOR DRAIN FLASHING TYPE
1	SAFETY RELEASE	43	.Angled
2	.With frangible or deformable	44	Adjustable pitch
2	element	45	WITH CASING, LINING OR PROTECTOR
3	FRANGIBLE ELEMENT	46	Escutcheon type
4	.Score line or groove	47	Insulated
5	IRRIGATION TYPE (GUIDE AND	48	Between serially connected
	SUPPORT)	40	parts
6	.Released by conduit motion	49	Intermediate resilient conduit
7	VACUUM CLEANER TYPE	47	(noise-dampener)
8	FAUCET TYPE (E.G., SLIP-ON)	50	By intermediate joint
9.1	WITH MAGNETIC ELEMENT	51	Ball and socket
9.2	CONTACT ONLY	52	Screw thimble
10	LIQUID SEAL	53	
11	.With relative motion	53 54	Sleeve
12	CONVERTIBLE	-	Socket
13	WITH LEAKAGE OR DRIP DISPOSAL	55	.Lined
14	.Weep holes	56	WATER CLOSET TYPE, FLOOR-
15	REPAIR	- -	SUPPORTED
16	.Removable wear element	57	.Flexible diaphragm or bellows
17	Alternate wear parts	58	.Intermediate coupling
18	WITH ASSEMBLY MEANS OR FEATURE	59	Tapered spigot
19	.Spaced plates	60	.Tapered spigot
20	Penetrating	61	WITH SUPPORT
21.1	.Molded joint facilitator	62	.Vehicle
21.2	Having embedded facilitator	63	Railway
21.3	Having solvent facilitator	64	.Static building construction
22	Spacing means (e.g., lugs)	65	IDENTICAL HALVES (E.G., TRAIN
23	.With holding means functioning		LINE TYPE)
	only during transportation	66	.With intermediate sleeve
	assembly or disassembly	67	.Side slide
24	.Guide and support	68	.Transverse port
25	Plural noncommunicating (e.g.,	69	Auxiliary detent
	train pipe type)	70	.Longitudinal port
26	With latch or lock	71	Pivoted hook or loop
27	.Guide	72	Auxiliary detent
28	Plural noncommunicating	73	Integral hook
29	With latch or lock	74	Oscillating engagement
30	.Combined inlet and outlet	75	Reciprocating conduit
31	.Inserted section	76	Auxiliary detent
32	Threaded telescopic	77	Reciprocating
33	.Quick release	78	Key or wedge
34	Radially moved segmented	79	Auxiliary detent
31	threads (e.g., chuck type)	80	WITH LOCK OR SEAL
35	Pivoted segments	81	WITH MEANS BLOCKING RELEASE OF
36	.Attached thread-jamming		HOLDING MEANS
30	preventer	82	.Auxiliary latch
37	.With winder for packing or clamp	83	Line pressure-responsive
38	.Handle or handwheel for rotary	84	Reciprocating
30	engagement	85	With manipulator
39	Particular tool-engaging means	86	Locking sleeve
55	or with tool	87	Pivoted
40	.Thread-cutting means	88	With manipulator
41	WITH HEATING OR COOLING	89	.Lock nut or washer
4 T	MITH DEWLING OF COOPING	0,5	· FOCK HAC OF MADILET

90	.Set screw	123.3	Having single suspended inner
91	.Key or pin	102.4	tube
92	.Thread lock	123.4	Split ring type suspension
93	WITH INDICATOR, ALARM OR	100 5	means
0.4	INSPECTION MEANS	123.5	Having inner tube anchored by
94	WITH LUBRICATION	102 6	slip means
95	WITH FLUID PRESSURE SEAL	123.6	Including packing means
96	.With external pressure supply	123.7	Having means engaging slip
97	Inflated member		means and compressing packing
98	.Swivel with flange in socket	102 0	means
99	.Coacting opposing duplicate	123.8	By bolt directly connecting
100	.With expansible chamber means	123.9	slip means to packing means
101	Piston-type reactor	123.9	Having radially applied
102	With line pressure-responsive	100 11	orienting means
	catch	123.11	Having slip means actuator
103	Side slide	123.12	Including a seal
104	.With separate, encased pipe-	123.13	Held by a means applied
4.0.5	gripping means	123.14	radially (e.g., set crew)
105	Packing-actuated	123.14	Compressed by tightening a bolt coaxial to tubing
106	.Independent supply passage	123.15	
107	Expansible shank	123.15	Double-walled or duplex joint
108	.Separate retainer or positioner	123.16	Wall configured as mating complementary type (e.g., hot
109	Expansible internal sleeve-type		air ducts)
440	gasket	123.17	Joint fabricated from material
110	.Flexible lip	123.17	to compensate for movement
111	C-shaped section	124.1	.Parallel paths
112	Longitudinal web	124.1	Having spacer means for pipes
113	.Wedged gasket	124.2	or tubes
114	WITH STRAIN RELIEF	12/13	
115	.Extension of socket or sleeve	124.3	Apertured plate type
115 116	.Extension of socket or sleeveSeparable	124.3 124.4	Apertured plate type Including a fitting, boss, or
115 116 117	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER	124.4	Apertured plate typeIncluding a fitting, boss, or nipple means
115 116	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING		Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type
115 116 117 118	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS	124.4 124.5	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts
115 116 117 118	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED	124.4 124.5 125.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH
115 116 117 118 119 120.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS	124.4 124.5	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and
115 116 117 118	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of	124.4 124.5 125.1 126.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover
115 116 117 118 119 120.1 121.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipes	124.4 124.5 125.1 126.1 127.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel joint
115 116 117 118 119 120.1 121.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescoping	124.4 124.5 125.1 126.1 127.1 127.2	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type
115 116 117 118 119 120.1 121.1 121.2 121.3	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvable	124.4 124.5 125.1 126.1 127.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel
115 116 117 118 119 120.1 121.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for	124.4 124.5 125.1 126.1 127.1 127.2	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof seal	124.4 124.5 125.1 126.1 127.1 127.2 128.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint)
115 116 117 118 119 120.1 121.1 121.2 121.3	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing	124.4 124.5 125.1 126.1 127.1 127.2	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structure	124.4 124.5 125.1 126.1 127.1 127.2 128.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint)
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwiveling	124.4 124.5 125.1 126.1 127.1 127.2 128.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type	124.4 124.5 125.1 126.1 127.1 127.2 128.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a vent
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having	124.4 124.5 125.1 126.1 127.1 127.2 128.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5 121.6 121.7 122.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow .For concentric tubes or pipes	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon .Intersecting paths (e.g., X- or cross-type)
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5 121.6 121.7 122.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow .For concentric tubes or pipes (e.g., well casing or wellhead	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1 129.2 130.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon .Intersecting paths (e.g., X- or
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5 121.6 121.7 122.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow .For concentric tubes or pipes (e.g., well casing or wellhead type)	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1 129.2 130.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon .Intersecting paths (e.g., X- or cross-type) .Y-type, (symmetrical along the
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5 121.6 121.7 122.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow .For concentric tubes or pipes (e.g., well casing or wellhead type)Having plural parallel	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1 129.2 130.1 131.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon .Intersecting paths (e.g., X- or cross-type) .Y-type, (symmetrical along the centerline)
115 116 117 118 119 120.1 121.1 121.2 121.3 121.4 121.5 121.6 121.7 122.1	.Extension of socket or sleeveSeparable WITH BROKEN PARTS RETAINER KNUCKLE JOINT WITH ACTUATING MEANS COMBINED HAVING PLURAL INDEPENDENT PATHS .Allowing relative motion of pipesRevolvable and telescopingRevolvableHaving spring biasing for maintaining a leak-proof sealHaving specific bearing structureSwivelingBall and socket type .And at least one path having branched flow .For concentric tubes or pipes (e.g., well casing or wellhead type)	124.4 124.5 125.1 126.1 127.1 127.2 128.1 129.1 129.2 130.1 131.1	Apertured plate typeIncluding a fitting, boss, or nipple meansLocated within block type connector for ducts FOR BRANCHED PATH .Having an access opening and removable cover .Including a swivel jointDouble Y-type .Allowing for movement parallel to path (e.g., expansion joint) .And having additional, integral fitting, branch, or coupling for a means such as a ventPlus a bend, flange, pocket, or chamber for antisiphon .Intersecting paths (e.g., X- or cross-type) .Y-type, (symmetrical along the centerline) .(Y-type) having a straight

133.21	Having a seal, gasket, O-ring,	148.9	Having bonded component
	or packing	148.11	Diverse materials
133.3	Having a pipe-receiving bell,	148.12	Having bonded component
	socket or mouth	148.13	Nonmetal to metal
133.4	Having threaded portions	148.14	Quick connect or release
133.5	Having reinforcement	148.15	Having swivel
133.6	For thin-walled material (e.g.,	148.16	Having serrated nipple
	sheet-metal)	148.17	Having clamp
134.1	U-TYPE (E.G., RETURN BEND)	148.18	Reducer
135.1	.Detachable	148.19	Diverse coupling interfaces
135.2	Having yoke-type clamp	148.21	Quick connect or release
135.3	Having a removable bushing	148.22	Diverse size or shape
135.4	Having coupling sleeve	148.23	Reducer
135.5	Secured by bolt	148.24	Sheet-metal (e.g., stove
136.1	PIPE TO DISCREET NIPPLE OR SLEEVE		duct, etc.)
	TO PLATE (I.E., THREE	148.25	Having bolted flange
	SUCCESSIVE PIECES)	148.26	Having clamp
137.11	.Pipe to nipple connection	148.27	Eccentric
	dependent on nipple to plate	148.28	Having bolted or screwed flange
	connection		or clamp
138.1	.Ball and socket	148.2	Quick connect or release
139.1	.Plate clamped between flanged	148.4	Having swivel
	nipple and separate fastener	149.1	CONNECTOR FOR CONDUIT HOUSING
139.2	Nipple includes seal		ELECTROMAGNETIC LINE:
139.3	Nipple includes securing means	150.1	.Underground
140.1	.Expandable detent engages plate	151.1	.Water tight
	to hold nipple	152.1	.Multiple passage
141.1	.Nipple sealed to plate	153.1	.Including swivel
142.1	.Nipple bolted to plate	153.2	Having plural swivels
143.1	.Nipple threaded to plate	153.3	Having swivel and spring
144.1	SERIAL, RELATIVELY MOVABLE	154.1	.Having box and connector
	PORTIONS	154.2	Including flexible armored
145.1	.Having telescoping portion		sheath
145.2	Pivot or swivel	154.3	Including screw operated clamp
145.3	Ball connector	154.4	Including screw operated clamp
145.4	Sleeve	179	ELBOW
145.5	Bellows-type	179.1	.With access opening
146.1	.Linked ball and socket portions	179.2	Sheet-metal
146.2	Having multiplex socket	180	.Cooperating saddle clamp
146.3	Having ball between opposed	181	.Serially connected, adjustable
	sockets	182	.Nesting parts
147.1	.Plural swivels	183	.Sheet metal
147.2	Having spring	184	ADJUSTABLE ANGLE
147.3	Having nozzle	185	.With center bolt
148.1	.Serial diverse single flow path	187	TEMPERATURE-RESPONSIVE
	or line	188	SIDE TO PIPE SIDE
148.3	Flexible	189	END TO SIDE OR PLATE (E.G.,
148.5	Intermediate joint with		REINFORCEMENT)
	expansible spigots	190	.Swivel with lateral port to
148.6	Compound coupling (e.g., leak-		annular sleeve
	gland type)	191	.Bolt or hook in flow (e.g.,
148.7	Having molded or bonded joint		center bolt)
140 0	Trinaving morada or somada jorno		Celifer Doit)
148.8	Having bolted or screwed	192	
140.0		192 193	.Penetrating (e.g., secant) .Fixture

194	Hole edge clamp	237	With spigot and socket ends
195	Transverse screw	238	NONMETAL TO METAL
196	.Expansible packing on spigot	239	.Internal member (e.g., sleeve or
197	.Saddle-type clamp	233	nipple)
198	Yoke with radial screw at bight	240	Flexible tip pipe
199	Yoke with thread on free ends	240	External clamp
		241	-
200	.Flexible or yielding plate		External clamp or holder
201	Sput	243	Movable jaw
202	Interlocked	244	Spring
203	Plate edge locks sput	245	Screw-compressed
204	Packed	246	Thimble gland
205	Clamped plate	247	Thimble
206	Screw clamp	248	Separable means between hose
207	With conduit clamping means	0.4.0	and clamp
208	Attachable from one side of	249	Wedge ring
	plate	250	Gland
209	Lugged nipple	251	Screw-fed hose
210	Movable lug	252	Band clamp with tightener
211	.Countersunk packed	253	Bolted
212	Screw-compressed	254	Wrapped band
213	.Gland	255	Wedge
214	Internal with expanding means	256	Deformation
215	External of conduit	257	Bendable spur fingers
216	Expansible	258	Expanding internal member
217	With conduit clamping means	259	Particular surface
218	Transverse screw	260	BOTH MEMBERS PLIABLE AND NONMETAL
219	.Screw	261	BALL AND SOCKET
220	With packing	262	.With internal tie means
221	Necked plate	263	.Radially spaced spherical
222	.Expanded or swaged pipe		surfaces
222.1	FOR PLURAL COMPONENT LINE (E.G.,	264	.Oscillative
	FLEXIBLE TYPE)	265	With gimbal ring
222.2	.Metal, elastomeric (e.g.,	266	.Composite ball
	rubber), and fabric layers	267	.Spring-biased packing
222.3	.Elastomeric and fabric layers	268	.Spring-biased ball
222.4	.Metal and elastomeric layers	269	Socketed spring
222.5	.Distinct metal layers (e.g.,	270	.With separate packing actuator
222.5	wire cloth, etc.)	270	.With removable ball seat
223	FLEXIBLE JOINT, RIGID MEMBERS	272	SWIVEL
224	Radial and longitudinal	272.1	.With access opening
224	expansion compensators	272.1	.Transverse cylinder in socket
225	.Diaphragm	274	-
226	.Bellows	274	.With yoke
227		275	Pipe in socket type
228	Multiple		With ball, ring or pin detent
	Balanced	277	With manipulator
229	Single fold type	278	With flange in socket
230	.Concrete, clay, or masonry pipe	279	Spring-pressed flange
231	Socketed packing type	280	Flange locked axially
232	With conduit gripping means	281	Packed
	(e.g., wedge ring)	282	.With rotation limits
233	Beaded conduit	283	DETACHABLE HINGE
234	Flared conduit	284.1	WITH ACCESS OPENING
235	.Resilient sleeve type	285.1	MOLDED JOINT
236	Clamped	286.1	.Interlocked

286.2	Deformed or having additional	311	Dead center lever systems
	holding means		(self-locking)
287.1	.With root repellent	312	Cam lever
288.1	.Weld	313	Restrainer for manipulator
288.2	Axially spaced	314	Cam sleeve
288.3	Cold weld	315	Reciprocating sleeve
288.4	Flash weld	316	Spring-biased sleeve
288.5	Having additional holding means	317	Spring-biased catch
288.6	Interlocked	318	.Coil spring
288.7	Having disassembly feature	319	.Leaf spring
288.8	Having crack arresting feature	320	.Pivoted
288.9	Reinforced	321	.Resilient ring
288.11	Having pre-formed weld ring	322	MOVABLE JAW (E.G., CONTRACTIBLE
289.1	naving pre-formed werd fing .Solder	322	SOCKET)
		323	•
289.2	Having additional holding means		.Wedge bushing
289.3	Interlocked	324	Reducing bushing
289.4	Having disassembly feature	325	SIDE SLIDE
289.5	Having pre-placed solder	326	.Clamping lever
290.1	.Composite pipe (ends)	327	.Screw-thimble tightener
290.2	Locked reinforcement	328	PARTICULAR INTERFACE
290.3	Interlocked with pipe end	329	.Diverse metal
290.4	Having additional holding	330	.Interlocked or overlapped
	means	331	.Annular socket
290.5	Expansion/contraction	332	.Tapered
291.1	.Having screw interlock	332.1	Conoidal
291.2	Having interrupted thread	332.2	Packed
292.1	.With lug and slot interlock	332.3	Interface
293.1	Lining or cover molded to pipe	332.4	Discontinuous interface surface
233.1	end	333	Threaded (e.g., drill pipe
294.1	.Sleeve	333	type)
294.1		334	Flat crest
_	Wrapped		
294.3	Sprue	334.1	Adapter seat
294.4	Having additional holding	334.2	Double-tapered internal sleeve
005.4	means	334.3	Elastomeric
295.1	.With packing filler	334.4	Dissimilar
295.2	Wedge ring type	334.5	Flared
295.3	Elastomeric	335	PACKED
296.1	.Sprue	336	.With cooperating opposed packing
298	VARIABLE LENGTH		grooves
299	.With bellows seal	337	.Externally with clamp
300	Internal sleeve	338	.Radially expansible, spigot-
301	With limit means		carried
302	.Telescopic with relative motion	339	.Wedge
303	.Step adjustment	340	Toggle ring type
304	FRICTION DETENT (E.G., BREAKAWAY	341	Double wedge surfaces
301	TYPE)	342	Pushed
305	ESSENTIAL CATCH	343	Compressed
306	.Line pressure-responsive	344	."Rolled-in" gasket
300		345	
	Operated by conduit motion	343	.Frictional retention upon
308	.With manipulator	216	insertion
309	With means to increase contact	346	With packing-expanding means
0.1.0	pressure (e.g., tightener)	347	.Carried on cylindrical shank
310	Separate actuator	348	.With separable follower
		349	.Supplemental packing socket

350	Extrusion recess	394	CAM
351	.Plural seals	395	.Thimble
352		395	
353	Coacting opposed duplicates	390	.Bayonet type INTERNAL SLEEVE
	.Screw thimble-gland .Screw thimble		
354		398	.With external
355	Screw	399	SOCKET
356	Gland	400	.Detachable ring
357	Threaded	401	.Lugged pipe, rotary engagement
358	.Cam	402	Bayonet slot
359	Thimble	403	.With separable fastener
360	Lugged pipe, rotary engagement	404	Set screw or pin
361	Bayonet slot	405	FLANGE
362	With manipulating ring	406	.Clamped
363	.Flanged pipe	407	Band type
364	Clamped	408	With intermediate flange
365	Band type		engaging member
366	Screw	409	Lever
367	Tangential	410	Screw
368	Axially bolted	411	Segmented ring
369	.Sleeve	412	Axially bolted
370	Internal	413	Rings
371	With external	414	.Detachable
372	Dependent	415	Split ring
373	Longitudinally divided	416	.Fused
374	.Socket	417	SLEEVE
375	Internal reciprocating packer	418	.Dependent
376	Lugged pipe, rotary engagement	419	Longitudinally divided
377	With manipulating ring	420	CLAMP
378	.Diverse metal seat	421	.Wedge
379	.Gasket retainer	422	MATERIALS
380	Resilient stud	423	.Nonmetallic
381.1	TEMPERATURE RESPONSIVE JOINT	424	.Sheet
	ELEMENT; E.G., SHRUNK FIT	425	MISCELLANEOUS
381.2	.Memory metal element		
381.3	Having intermediate member		
381.4	.Memory plastic element		
381.5	Having intermediate member	CROSS-1	REFERENCE ART COLLECTIONS
382	DEFORMED	<u></u>	
382.1	.Both members	900	BALANCED PRESSURE
382.2	Simultaneous	901	CAP CLOSURES
382.4	Outwardly expanded	902	CANTED RING
382.5	Bulged	903	CORRUGATED
382.7	.By separate deformable element	904	CRYOGENIC
383	DISTINCT SPACED SERIAL	905	DIFFERENT COEFFICIENTS OF
384	SCREW THIMBLE-GLAND	905	
385	. Wedge	906	EXPANSION
386	SCREW THIMBLE		EQUIVALENTS
387	.Removable	907	ELECTRICAL FIXTURES
388	Detachable flange	908	EXTRUSION HOLES
388		909	FLUOROCARBONS AND MEMORY PLASTICS
399	. Wedge	910	GASKETS
	SCREW	911	GLASS
391	.Interrupted thread	912	GEAR
392	.Attached thread bushing	913	INTERDIGITATING
393	.Gland	914	IRREVERSIBLE

915	MASTIC
916	MOLECULAR CHANGE
917	METALLIC SEALS
918	O-RING
919	RESINOUS
920	REMOTELY CONTROLLED
921	SNAP-FIT
922	SAFETY AND QUICK RELEASE FOR
	DRILL PIPES
923	SPECIFIC MATERIAL
924	VENTED
925	SWELLS WHEN WET

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

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

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FOR 100 SYSTEMS (285/120)
FOR 101 .With access opening (285/121)
FOR 102 ... Swivel (285/122)
FOR 103 ...With hollow center bolt (285/
           123)
FOR 104 .. Detachable return band (285/
           124)
FOR 105 ... With yoke clamp (285/125)
FOR 106 ....Removable bushing (285/126)
FOR 107 .. Elbow (285/127)
FOR 108 .Pipe or cable and box (285/128)
FOR 109 .. With attached closure flange
           (285/129)
FOR 110 . Receptacle inlet and outlet in
           unitary mounting (285/130)
FOR 111 .Plural noncommunicating paths
           (285/131)
FOR 112 .. With branched flow (285/132)
FOR 113 .. Concentric (285/133.1)
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FOR 114 ... Having suspension means (e.g.,

FOR 115 ... With relative motion (e.g.,

FOR 116Ball and socket (285/135)

(285/133.2)

oil well head type, etc.)

drier drum type) (285/134)

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FOR 117 .. With relative motion (285/136)
FOR 118 .. Parallel (285/137.1)
FOR 119 ... Having suspension means (e.g.,
           oil well head type, etc.)
           (285/137.2)
FOR 120 .Inner to spaced outer tube
           coupling (285/138)
FOR 121 .. Radially compressed packing
           (285/139)
FOR 122 ... Suspended (e.g., oil well
           casing type) (285/140)
FOR 123 ... Radially movable support ring
           (split ring type) (285/141)
FOR 124 ... Inner tube coupling with
           integral support (285/142)
FOR 125 ....With intermediate member
           (285/143)
FOR 126 ... Slip anchored inner tube (285/
           144)
FOR 127 ....With slip actuator (285/145)
FOR 128 ....With unitary slip and packing
           assembly (285/146)
FOR 129 ....With slip-compressed packing
           (285/147)
FOR 130 ....With packing seat on slip
           (285/148)
FOR 131 .Plural layer pipe (285/149)
FOR 132 .Branched (285/150)
FOR 133 .. With relative motion (285/151)
FOR 134 ... Double Y-type (285/152)
FOR 135 .. With vent (285/153)
FOR 136 ... Antisiphon (285/154)
FOR 137 .. Y-type (285/155)
FOR 138 .. T-type (285/156)
FOR 139 .U-type (285/157)
FOR 140 .Pipe or rod-to-pipe-to-plate
           (285/158)
FOR 141 .. Dependent coupling (285/159)
FOR 142 ..Ball and socket (285/160)
FOR 143 .. Plate clamped between internal
           nut and shoulder or flange
           (285/161)
FOR 144 .. Expanding spigot engages plate
           (285/162)
FOR 145 .Serial relatively movable joints
           (285/163)
FOR 146 .. Diverse (285/164)
FOR 147 ... With telescopic type (285/165)
FOR 148 ..Plural ball and socket (285/
           166)
FOR 149 ... With sphere intermediate two
           sockets (285/167)
FOR 150 ..Plural swivel (285/168)
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FOR 151 .Serial diverse single flow or

line (285/169)

- FOR 152 ..Intermediate joint with expansible spigots (285/170)
- FOR 153 ..Compound (e.g., leak-gland type) (285/171)
- FOR 154 ...With molded joint (285/172)
- FOR 155 ..Diverse materials (285/173)
- FOR 156 ...Nonmetal to metal (285/174)
- FOR 157 ..Diverse coupling interfaces (285/175)
- FOR 158 ..Diverse size or shape (285/176)
- FOR 159 ... Reducer (285/177)
- FOR 160 ... Eccentric (285/178)
- FOR 161 MOLDED JOINT (285/284)
- FOR 162 .With root repellent (285/285)
- FOR 163 .Weld (285/286)
- FOR 164 .Solder (285/287)
- FOR 165 .Composite pipe (ends) (285/288)
- FOR 166 .With screw interlock (285/289)
- FOR 167 .With lug and slot interlock (285/290)
- FOR 168 .Lining molded to pipe end (285/ 291)
- FOR 169 .Sleeve (285/292)
- FOR 170 .. Wrapped (285/293)
- FOR 171 ... Sprue (285/294)
- FOR 172 .With packing filler (285/295)
- FOR 173 .. Wedge ring type (285/296)
- FOR 174 .Sprue (285/297)