SAFETY RELEASE
  1 With frangible or deformable element

FRANGIBLE ELEMENT
  2 Score line or groove

IRRIGATION TYPE (GUIDE AND SUPPORT)
  3 Released by conduit motion

VACUUM CLEANER TYPE
  4

FAUCET TYPE (E.G., SLIP-ON)
  5 WITH MAGNETIC ELEMENT
    6 CONTACT ONLY

LIQUID SEAL
  7 With relative motion

CONVERTIBLE
  8 WITH LEAKAGE OR DRIP DISPOSAL

REPAIR
  9 .Weep holes

WITH ASSEMBLY MEANS OR FEATURE
  10 .Removable wear element
    11 .Alternate wear parts

Molded joint facilitator
  21.1 .Penetrating
  21.2 .Having embedded facilitator
  21.3 .Having solvent facilitator

Spacing means (e.g., lugs)
  22 .With holding means functioning only during transportation assembly or disassembly

Guide and support
  24 .Guide
    25 .Plural noncommunicating (e.g., train pipe type)
        ...With latch or lock

Threaded telescopic
  32 .Quick release

Radially moved segmented threads (e.g., chuck type)
  34 .Pivoted segments

Attached thread-jamming preventer
  36 .With winder for packing or clamp

Handle or handwheel for rotary engagement
  38 .Particular tool-engaging means or with tool

Thread-cutting means
  40

WITH HEATING OR COOLING

ROOF OR FLOOR DRAIN FLASHING TYPE
  42 .Angled
    43 .Adjustable pitch

WITH CASING, LINING OR PROTECTOR
  44 .Escutcheon type
    45 .Insulated
        ..Between serially connected parts
            ...Intermediate resilient conduit (noise-dampener)
            ....By intermediate joint
                .....Ball and socket
                ....Screw thimble
                ...Sleeve
                ...Socket
                .Lined

WATER CLOSET TYPE, FLOOR-SUPPORTED
  50 .Flexible diaphragm or bellows
    51 .Intermediate coupling
    52 .Tapered spigot
    53 .Tapered spigot

WITH SUPPORT
  54 .Vehicle
    55 .Railway
    56 .Static building construction

IDENTICAL HALVES (E.G., TRAIN LINE TYPE)
  57 .With intermediate sleeve
    58 .Side slide
    59 .Transverse port
        ..Auxiliary detent
        .Longitudinal port
        ..Pivoted hook or loop
        ...Auxiliary detent
        ..Integral hook
        ...Oscillating engagement
            ....Reciprocating conduit
            ....Auxiliary detent
            ....Reciprocating
            ......Key or wedge
            ...Auxiliary detent

WITH LOCK OR SEAL

WITH MEANS BLOCKING RELEASE OF HOLDING MEANS
  70 .Auxiliary latch
    71 .Line pressure-responsive
    72 .Reciprocating
        ..With manipulator
        ...Locking sleeve
        ..Pivoted
        ...With manipulator
        .Lock nut or washer
CLASS 285 PIPE JOINTS OR COUPLINGS

WITH INDICATOR, ALARM OR INSPECTION MEANS

WITH LUBRICATION

WITH FLUID PRESSURE SEAL

WITH EXTERNAL PRESSURE SUPPLY

SWIVEL WITH FLANGE IN SOCKET

COACTING OPPOSING DUPLICATE

WITH EXPansible CHAMBER MEANS

PISTON-TYPE REACTOR

...WITH LINE PRESSURE-RESPONSIVE CATCH

SIDE SLIDE

WITH SEPARATE, ENCASED PIPE-GRIpping MEANS

PACKING-ACTUATED

INDEPENDENT SUPPLY PASSAGE

EXPANSIBLE SHANK

SEPARATE RETAINER OR POSITIONER

EXPANSIBLE INTERNAL SLEEVE-TYPE GASKET

FLEXIBLE LIP

...C-SHAPED SECTION

...LONGITUDINAL WEB

WITH STRAIN RELIEF

EXTENSION OF SOCKET OR SLEEVE

SEPARABLE

WITH BROKEN PARTS RETAINER

KNUCKLE JOINT WITH ACTUATING MEANS

COMBINED

HAVING PLURAL INDEPENDENT PATHS

ALLOWING RELATIVE MOTION OF PIPES

REVOLVABLE AND TELESCOPING

REVOLVABLE

HAVING SPRING BIASING FOR maintaining a LEAK-PROOF SEAL

HAVING SPECIFIC BEARING STRUCTURE

SWIVELING

BALL 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 SUSPENDED INNER TUBES

HAVING SINGLE SUSPENDED INNER TUBE

SPLIT RING TYPE SUSPENSION MEANS

HAVING INNER TUBE ANCHORED BY SLIP MEANS

INCLUDING PACKING MEANS

MEANS ENGAGING SLIP MEANS AND COMPRESSING PACKING MEANS

...BY BOLT DIRECTLY CONNECTING SLIP MEANS TO PACKING MEANS

HAVING RADially APPLIED ORIENTING MEANS

HAVING SLIP MEANS ACTUATOR

INCLUDING A SEAL

HELD BY A MEANS APPLIED RADially (E.G., SET CREW)

COMPRESSED BY TIGHTENING A BOLT COAXIAL TO TUBING

DOUBLE-WALLED OR DUPLEX JOINT

WALL CONFIGURED AS MATING COMPLEMENTARY TYPE (E.G., HOT AIR DUCTS)

JOINT FABRICATED FROM MATERIAL TO COMPENSATE FOR MOVEMENT

PARALLEL PATHS

HAVING SPACER MEANS FOR PIPES OR TUBES

APERTURED PLATE TYPE

INCLUDING A FITTING, BOSS, OR NIPPLE MEANS

LOCATED WITHIN BLOCK TYPE CONNECTOR FOR DUCTS

FOR BRANCHED PATH

HAVING AN ACCESS OPENING AND REMOVABLE COVER

INCLUDING A SWIVEL JOINT

DOUBLE 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

PLUS A BEND, FLANGE, POCKET, OR CHAMBER FOR ANTI-SIPHON

INTERSECTING PATHS (E.G., X- OR CROSS-TYPE)

Y-TYPE, (SYMMETRICAL ALONG THE CENTERLINE)

(Y-TYPE) HAVING A STRAIGHT PORTION AND AN ANGLED LEG

T-TYPE
133.21 Having a seal, gasket, O-ring, or packing
133.3 Having a pipe-receiving bell, socket or mouth
133.4 Having threaded portions
133.5 Having reinforcement
133.6 For thin-walled material (e.g., sheet-metal)

134.1 **U-TYPE (E.G., RETURN BEND)**
135.1 Detachable
135.2 Having yoke-type clamp
135.3 Having a removable bushing
135.4 Having coupling sleeve
135.5 Secured by bolt

136.1 **PIPE TO DISCREET NIPPLE OR SLEEVE TO PLATE (I.E., THREE SUCCESSIVE PIECES)**
137.11 Pipe to nipple connection dependent on nipple to plate connection
138.1 Ball and socket
139.1 Plate clamped between flanged nipple and separate fastener
139.2 Nipple includes seal
139.3 Nipple includes securing means
140.1 Expandable detent engages plate to hold nipple
141.1 Nipple sealed to plate
142.1 Nipple bolted to plate
143.1 Nipple threaded to plate

144.1 **SERIAL, RELATIVELY MOVABLE PORTIONS**
145.1 Having telescoping portion
145.2 Pivot or swivel
145.3 Ball connector
145.4 Sleeve
145.5 Bellows-type
146.1 Linked ball and socket portions
146.2 Having multiplex socket
146.3 Having ball between opposed sockets
147.1 Plural swivels
147.2 Having spring
147.3 Having nozzle
148.1 Serial diverse single flow path or line
148.2 Flexible
148.3 Intermediate joint with expandable spigots
148.4 Compound coupling (e.g., leak-gland type)
148.7 Having molded or bonded joint
148.8 Having bolted or screwed flange or clamp

148.9 Having bonded component
148.11 Diverse materials
148.12 Having bonded component
148.13 Nonmetal to metal
148.14 Quick connect or release
148.15 Having swivel
148.16 Having serrated nipple
148.17 Having clamp
148.18 Reducer
148.19 Diverse coupling interfaces
148.21 Quick connect or release
148.22 Diverse size or shape
148.23 Reducer
148.24 Sheet-metal (e.g., stove duct, etc.)
148.25 Having bolted flange
148.26 Having clamp
148.27 Eccentric
148.28 Having bolted or screwed flange or clamp
148.2 Having quick connect or release
148.4 Having swivel

**CONNECTOR FOR CONDUIT HOUSING ELECTROMAGNETIC LINE:**
150.1 Underground
151.1 Water tight
152.1 Multiple passage
153.1 Including swivel
153.2 Having plural swivels
153.3 Having swivel and spring
154.1 Having box and connector
154.2 Including flexible armored sheath
154.3 Including screw operated clamp
154.4 Including screw operated clamp

**ELBOW**
159.1 With access opening
159.2 Sheet-metal
180 Cooperating saddle clamp
181 Serially connected, adjustable
182 Nesting parts
183 Sheet metal

**ADJUSTABLE ANGLE**
184 With center bolt

**TEMPERATURE-RESPONSIVE SIDE TO PIPE SIDE**

**END TO SIDE OR PLATE (E.G., REINFORCEMENT)**
190 Swivel with lateral port to annular sleeve
191 Bolt or hook in flow (e.g., center bolt)
192 Penetrating (e.g., secant)
193 Fixture
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>194</td>
<td>Hole edge clamp</td>
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<tr>
<td>195</td>
<td>Transverse screw</td>
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<tr>
<td>196</td>
<td>Transverse screw</td>
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<tr>
<td>197</td>
<td>Saddle-type clamp</td>
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<tr>
<td>198</td>
<td>Yoke with radial screw at bight</td>
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<td>199</td>
<td>Yoke with thread on free ends</td>
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<td>200</td>
<td>Flexible or yielding plate</td>
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<td>201</td>
<td>Sput</td>
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<td>202</td>
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<td>Packed</td>
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<td>205</td>
<td>Clamped plate</td>
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<td>206</td>
<td>Screw clamp</td>
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<tr>
<td>207</td>
<td>With conduit clamping means</td>
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<tr>
<td>208</td>
<td>Attachable from one side of plate</td>
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<tr>
<td>209</td>
<td>Lugged nipple</td>
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<td>210</td>
<td>Movable lug</td>
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<td>211</td>
<td>Countersunk packed</td>
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<td>212</td>
<td>Screw-compressed</td>
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<td>213</td>
<td>Gland</td>
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<td>214</td>
<td>Internal with expanding means</td>
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<td>215</td>
<td>External of conduit</td>
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<td>216</td>
<td>Expansible</td>
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<td>217</td>
<td>With conduit clamping means</td>
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<td>218</td>
<td>Transverse screw</td>
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<td>219</td>
<td>Screw</td>
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<td>220</td>
<td>With packing</td>
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<td>221</td>
<td>Necked plate</td>
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<td>222</td>
<td>Expanded or swaged pipe</td>
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<td>222.1</td>
<td>For plural component line (e.g., flexible type)</td>
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<tr>
<td>222.2</td>
<td>Metal, elastomeric (e.g., rubber), and fabric layers</td>
</tr>
<tr>
<td>222.3</td>
<td>Elastomeric and fabric layers</td>
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<td>222.4</td>
<td>Metal and elastomeric layers</td>
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<td>222.5</td>
<td>Distinct metal layers (e.g., wire cloth, etc.)</td>
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<tr>
<td>223</td>
<td>Flexible joint, rigid members</td>
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<td>224</td>
<td>Radial and longitudinal expansion compensators</td>
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<td>Diaphragm</td>
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<td>226</td>
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<td>Multiple</td>
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<td>228</td>
<td>Balanced</td>
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<td>229</td>
<td>Single fold type</td>
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<td>230</td>
<td>Concrete, clay, or masonry pipe</td>
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<td>231</td>
<td>Socketed packing type</td>
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<tr>
<td>232</td>
<td>With conduit gripping means (e.g., wedge ring)</td>
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<td>233</td>
<td>Beaded conduit</td>
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<td>234</td>
<td>Flared conduit</td>
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<td>235</td>
<td>Resilient sleeve type</td>
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<td>236</td>
<td>Clamped</td>
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<td>237</td>
<td>With spigot and socket ends</td>
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<td>238</td>
<td>Internal member (e.g., sleeve or nipple)</td>
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<tr>
<td>239</td>
<td>Flexible tip pipe</td>
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<tr>
<td>240</td>
<td>External clamp</td>
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<td>241</td>
<td>External clamp or holder</td>
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<td>242</td>
<td>Movable jaw</td>
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<td>243</td>
<td>Spring</td>
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<td>244</td>
<td>Screw-compressed</td>
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<td>245</td>
<td>Thimble gland</td>
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<td>246</td>
<td>Thimble</td>
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<td>Separable means between hose and clamp</td>
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<td>Band clamp with tighter</td>
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<td>Bolted</td>
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<td>Expanding internal member</td>
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<td>Particular surface</td>
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<td>Conduit gripping means</td>
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<td>With separate packing actuator</td>
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<td>With removable ball seat</td>
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<td>261</td>
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<td>262</td>
<td>With gimbal ring</td>
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<td>263</td>
<td>Composite ball</td>
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<td>264</td>
<td>Spring-biased packing</td>
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<td>265</td>
<td>Spring-biased ball</td>
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<td>266</td>
<td>Socketed spring</td>
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<td>267</td>
<td>With ball, ring or pin detent</td>
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<td>268</td>
<td>With manipulator</td>
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<td>269</td>
<td>Spring-pressed flange</td>
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<td>270</td>
<td>Flange locked axially</td>
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<td>271</td>
<td>Packed</td>
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<td>272</td>
<td>With rotation limits</td>
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<td>273</td>
<td>With access opening</td>
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<td>274</td>
<td>Transverse cylinder in socket</td>
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<td>276</td>
<td>Pipe in socket type</td>
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<td>277</td>
<td>Flange locked axially</td>
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<tr>
<td>278</td>
<td>Packed</td>
</tr>
<tr>
<td>279</td>
<td>With rotation limits</td>
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<td>280</td>
<td>With access opening</td>
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<td>284.1</td>
<td>Molded joint</td>
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<tr>
<td>285.1</td>
<td>Interlocked</td>
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</tbody>
</table>
286.2  Deformed or having additional holding means
287.1  With root repellent
288.1  Weld
288.2  Axially spaced
288.3  Cold weld
288.4  Flash weld
288.5  Having additional holding means
288.6  Interlocked
288.7  Having disassembly feature
288.8  Having crack arresting feature
288.9  Reinforced
288.11 Having pre-formed weld ring
289.1  Solder
289.2  Having additional holding means
289.3  Interlocked
289.4  Having disassembly feature
289.5  Having pre-placed solder
290.1  Composite pipe (ends)
290.2  Locked reinforcement
290.3  Interlocked with pipe end
290.4  Having additional holding means
290.5  Expansion/contraction
291.1  Having screw interlock
291.2  Having interrupted thread
292.1  With lug and slot interlock
293.1  Lining or cover molded to pipe end
294.1  Sleeve
294.2  Wrapped
294.3  Sprue
294.4  Having additional holding means
295.1  With packing filler
295.2  Wedge ring type
295.3  Elastomeric
296.1  Sprue
298  VARIABLE LENGTH
299  With bellows seal
300  Internal sleeve
301  With limit means
302  Telescopic with relative motion
303  Step adjustment
304  FRICITION DETENT (E.G., BREAKAWAY TYPE)
305  ESSENTIAL CATCH
306  Line pressure-responsive
307  Operated by conduit motion
308  With manipulator
309  With means to increase contact pressure (e.g., tighter)
310  ...Separate actuator

MOVABLE JAW (E.G., CONTRACTIBLE SOCKET)
311  Dead center lever systems
312  Cam lever
313  Restrainer for manipulator
314  Cam sleeve
315  Reciprocating sleeve
316  Spring-biased sleeve
317  Spring-biased catch
318  Coil spring
319  Leaf spring
320  Pivoted
321  Resilient ring

SIDE SLIDE
322  Wedge bushing
323  Reducing bushing
324  Screw-thimble tightener

PARTICULAR INTERFACE
325  Diverse metal
326  Interlocked or overlapped
327  Annular socket
328  Tapered
329  Conoidal
330  Packad
331  Interface
332  Discontinuous interface surface
333  Threaded (e.g., drill pipe type)
334  Flat crest
335  Adapter seat
336  Double-tapered internal sleeve
337  Elastomeric
338  Dissimilar
339  Flared
340  Wedge
341  Toggle ring type
342  Double wedge surfaces
343  Pushed
344  Compressed
345  "Rolled-in" gasket
346  Frictional retention upon insertion
347  Carried on cylindrical shank
348  With separable follower
349  Supplemental packing socket
CLASS 285 PIPE JOINTS OR COUPLINGS

350 ..Extrusion recess
351 .Plural seals
352 ..Coacting opposed duplicates
353 .Screw thimble-gland
354 .Screw thimble
355 .Screw
356 .Gland
357 ..Threaded
358 .Cam
359 ..Thimble
360 ..Lugged pipe, rotary engagement
361 ..Bayonet slot
362 ..With manipulating ring
363 .Flanged pipe
364 ..Clamped
365 ..Band type
366 ....Screw
367 .....Tangential
368 ...Axially bolted
369 .Sleeve
370 ..Internal
371 ..With external
372 .Dependent
373 ...Longitudinally divided
374 ..Socket
375 ..Internal reciprocating packer
376 ..Lugged pipe, rotary engagement
377 ..With manipulating ring
378 .Diverse metal seat
379 .Gasket retainer
380 .Resilient stud
381 .Temperature responsive joint
381.1 ..Element; E.G., shrunk fit
381.2 .Memory metal element
381.3 ..Having intermediate member
381.4 .Memory plastic element
381.5 ..Having intermediate member
382 Deformed
382.1 ..Both members
382.2 ..Simultaneous
382.4 ..Outwardly expanded
382.5 ..Bulged
382.7 ..By separate deformable element
383 Distinct spaced serial
384 Screw thimble-gland
385 .Wedge
386 Screw thimble
387 ..Removable
388 ..Detach able flange
389 ..Wedge
390 Screw
391 ..Interrupted thread
392 ..Attached thread bushing
393 ..Gland
394 Cam
395 ..Thimble
396 ..Bayonet type
397 ..Bayonet sleeve
398 .With external
399 .Screw
400 ..Thimble
401 ..Lugged pipe, rotary engagement
402 ..Bayonet slot
403 ..With separable fastener
404 ..Set screw or pin
405 ..Band type
406 ..Clamped
407 ..Band type
408 ..Lugged pipe, rotary engagement
409 ..Set screw or pin
410 ..Lever
411 ..Segmented ring
412 ..Axially bolted
413 ..Rings
414 ..Detachable
415 ..Split ring
416 ..Fused
417 SLEEVE
418 ..Wedge
419 ..Longitudinally divided
420 CLAMP
421 ..Wedge
422 MATERIALS
423 ..Nonmetallic
424 ..Sheet
425 MISCELLANEOUS

CROSS-REFERENCE ART COLLECTIONS

900 BALANCED PRESSURE
901 CAP CLOSURES
902 CANTED RING
903 CORRUGATED
904 CRYOGENIC
905 DIFFERENT COEFFICIENTS OF EXPANSION
906 EQUIVALENTS
907 ELECTRICAL FIXTURES
908 EXTRUSION HOLES
909 FLUOROCARBONS AND MEMORY PLASTICS
910 GASKETS
911 GLASS
912 GEAR
913 INTERDIGITATING
914 IRREVERSIBLE
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.

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)
FOR 114 Having suspension means (e.g., oil well head type, etc.) (285/133.2)
FOR 115 With relative motion (e.g., drier drum type) (285/134)
FOR 116 Ball and socket (285/135)
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)
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FOR 145 Serial relatively movable joints (285/163)
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FOR 150 Plural swivel (285/168)
FOR 151 Serial diverse single flow or line (285/169)
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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)