

300	PROCESS OF DYNAMIC SEALING	334	..Particular wall structure
301	.Close proximity seal (e.g., contactless, fluent, etc.)	335	.Axially facing packing cup
302	..Magnetic	336	.For below ground apparatus
303	..Labyrinth	337	..Longitudinally actuated packer
304	..Formed by pressurized sealing fluid introduced to form barrier	338	...Packing sleeve
305	..Floating ring or bushing	339	....Expanded by wedging member
306	..Relatively rotatable radially extending sealing face member (e.g., face, mechanical, etc.)	340	....Particular wall structure
307	..Formed by flexible projection	341	.....Reinforcing feature
308	.Contained or compressed by gland member in packing box	342	...Plural stacked rings
309	.Peripheral radially sealing flexible projection (e.g., lip, piston cup seal, etc.)	343	.Seal (e.g., wiper, oil saver, stripper, etc.) accommodates irregular size of inner part
310	.Piston ring for internal combustion engine	344	.Segmented radially actuated packer (e.g., oil saver, gas saver, etc.) for above ground apparatus
311	.Flexible ring	345	SEAL BETWEEN RELATIVELY MOVABLE PARTS (I.E., DYNAMIC SEAL)
312	PROCESS OF STATIC SEALING	346	.Diverse and distinct dynamic seals
313	.Between parts of internal combustion engine	347	..Close proximity seal (e.g., contactless, fluent, etc.)
314	.Pipe, conduit, or cable	348	...And relatively rotatable radially extending contacting sealing members (e.g., face, mechanical, etc.)
315	.Using flexible sleeve, boot, or diaphragm	349	....And circumferential peripheral radially sealing flexible projection (e.g., lip seal, etc.)
316	.Forming in place (i.e., in situ)	350	...And circumferential contact seal
317	SEAL COMBINED WITH INDICATOR, SAMPLER, OR INSPECTION FEATURE	351	....Peripheral radially sealing flexible projection (e.g., lip seal, etc.)
318	.Fluid pressure	352	..Relatively rotatable radially extending contacting sealing members (e.g., face, mechanical, etc.)
319	.Fluid temperature	353	..And circumferential peripheral radially sealing flexible projection (e.g., lip seal, etc.)
320	.Fluid leakage	354	.Helically threaded part
321	.Wear, proper seating, or presence	355	.Brush seal
322	SEAL FOR WELL APPARATUS	356	.For journal box (e.g., railway car journal, etc.)
323	.Installation, removal, assembly, disassembly, or repair feature	357	.For rotary piston
324	.For overpressure control device (e.g., seal for a blowout preventer, etc.)	358	.Relatively rotatable radially extending sealing face member (e.g., face, mechanical, etc.)
325	..Segmented radially actuated (e.g., ram type, etc.)	359	..Temperature responsive feature
326	..Rotatable	360	...Accommodates or prevents thermal distortion
327	..Axially compressed ring		
328	..Longitudinally actuated packer for above ground apparatus		
329	..Contained or compressed by gland member in packing box		
330	...For line or cable		
331	.Inflatable packer		
332	..Deforms radially inward		
333	..And inflating medium control		

361	..Multiple sealing faces (e.g., double seals, etc.)	392	....Between sealing face member and shaft or part relating to shaft
362	...Floating intermediate sealing face member	393	....Particular connecting feature to sealing face member
363	....Including an outwardly axial biasing member	394	...Peripheral radially sealing flexible projection (e.g., lip seal, etc.)
364	...Concentric and radially spaced	395	....U- or V-shaped cross-sectional profile
365	...Three or more	396	...Axially compressed packing
366	...Shaft mounted sealing face members biased axially away from each other	397	...Frictionally engaged or interfitting projection and recess
367	...Shaft mounted sealing face members biased axially towards each other	398	..Eccentric, gyratory, or oscillatory motion
368	...Housing mounted sealing face members biased axially away from each other	399	..Particular sealing face member configuration
369	...Housing mounted sealing face members biased axially towards each other	400	...Hydrodynamic feature
370	..Installation, removal, assembly, disassembly, or repair feature	401	...Fluid passage to the sealing face
371	...Unitized seal assembly (e.g., cartridge, etc.)	402	...Flexible projection (e.g., lip seal, etc.)
372	....Having rotation prevention (i.e., antirotation) feature for the sealing face member	403	...Angled or tapered sealing face
373	.....Lug or rib	404	..Made of particular material
374	....Retains opposed sealing face members	405	...Ceramic
375	....Mounted in housing or casing	406	...Metal
376	.....Snap fit into groove	407	...Elastomeric or plastic
377	..Particular axial biasing feature	408	..Introduction, circulation, or removal of fluid
378	...Magnetic	409	.Close proximity seal (e.g., contactless, fluent, etc.)
379	...Particular spring feature	410	..Magnetic
380	....Made of elastomeric material	411	..Gap or clearance
381	.....Frustoconical shape	412	...Labyrinth
382	.....O-ring shape	413	....Having adjustable member
383	....Imbedded in another material	414	....Formed by cellular pockets (e.g., honeycomb, etc.)
384	....Washerlike shape	415	....Having wear resistant, abradable, or ablative member
385	....Arrangement or location	416	....Segmented
386	.....Radially biasing member creates axial bias	417	....Formed by multiple washers
387	...Fluid pressure	418	....Formed by plural grooves or projections on opposing surfaces
388	....Creates counter pressure	419	.....Interfitting or overlapping
389	....And bellows or diaphragm	420	.....And axially oriented
390	..Particular secondary mounting seal or driving connection	421	...Having installation, removal, assembly, disassembly, or repair feature
391	...Flexible sleeve, boot, or diaphragm	422	...Floating ring or bushing
		423	..Impeller (e.g., slinger, etc.)

- 424 ...Rib or groove on radial extending surface
- 425 ...And static sealing means affected by rotational movement
- 426Actuated by counterweight
- 427 ...Forms centrifugal liquid barrier
- 428Having cup or chamber inside the impeller or another rotating member
- 429 ...Fluid collector or receiver
- 430 ...Helical groove or thread on axially extending surface
- 431 ..Formed by pressurized sealing fluid introduced to form barrier
- 432 ...External device or system
- 433 .Centrifugal force affects change in displacement, shape, or contact
- 434 .Piston ring or piston ring expander or seat therefor
- 435 ..Having installation, removal assembly, disassembly, or repair feature
- 436 ..Piston ring having peripheral radially sealing flexible projection (e.g., piston cup, etc.)
- 437 ...Having particular mounting, retaining, or supporting feature
- 438 ...Having C, U, or V cross-sectional profile
- 439Axially facing cup
- 440 ..Piston ring surface of dissimilar material or hardness
- 441 ...Insert
- 442 ...Surface coating, plating, or impregnation
- 443Nitrided
- 444Chromium
- 445 ..Rotation limiting feature (i.e., antirotation)
- 446 ...Between rings
- 447 ..Floating piston ring
- 448 ..Material other than metal
- 449 ..Particular piston seat
- 450 ...Helical form
- 451 ...Stepped walls
- 452 ...Oblique wall
- 453More than one oblique wall
- 454Having parallel walls
- 455 ...Arcuate wall
- 456 ...Coating, treatment, or wall insert
- 457 ...Having passageway for fluid return, pressure relief, or venting
- 458 ..Piston ring having single piece noncircular or multiturn (e.g., helical, spiral, oblong, elliptical, polygonal, etc.) shape
- 459 ..Piston ring including exposed port, slot, pocket, groove, channel, recess, or bevel
- 460 ...Circumferential groove, channel, recess, or bevel
- 461Axially spaced
- 462Ports
- 463Ports
- 464 ...Circumferentially spaced ports
- 465 ...Circumferentially spaced slots, pockets, grooves, channels, recesses, or bevels
- 466 ..Piston ring displays twisting or torsion
- 467 ..Particular piston ring expander
- 468 ...Separate and other than metal
- 469 ...Bias limiting feature
- 470 ...Adjustable loading feature
- 471 ...Thermal expansion feature
- 472 ...Annular expander nested in annular groove of the piston ring
- 473Between piston rings
- 474And contacting surfaces therebetween are complementary
- 475Having more than one pair of such surfaces
- 476Inclined or beveled groove contacting expander having dissimilar contour
- 477 ..Slotted or undulating circular band including inclined or axially facing seat for the piston ring
- 478Axially spaced axially facing seats
- 479Circular band having radially displaced undulations
- 480Circular band having axially displaced undulations
- 481U-shaped circular band radially directed either inwardly or outwardly throughout its circumference

482	...Circumferentially spaced separately seated radially acting bias feature	511	...Having installation, removal, assembly, disassembly, or repair feature
483	....Disposed in socket or about pin	512	...Fluid introducer or director
484	...Radially extending tongue formed from expander	513	....External device or system
485	..Undulating periphery providing axially extending face against inner perimeter of the piston ring	514	....Drain, pressure relief, or vent
486	..Bias feature adjoining opposed ends of split or segmented piston ring	515	....Passage through axial facing surface
487	...Segmented	516	....Spacer between seals (e.g., lantern ring, etc.)
488	...For axially adjacent piston rings	517	....Between packing boxes
489	..Sectional piston ring structure	518	...Plural distinct packing boxes
490	..Eccentric or variable thickness component ring	519	...Segmented packing boxes
491	...C, L, T, U, V, or Z cross- sectional profile	520	...Particular gland feature
492	....Three or more sections	521	....Segmented
493	..Segmented piston ring	522	....Spring bias
494	..Separate bridging piece for gap in piston ring	523	....Disposed about external bolt or stud
495	...Secured to end	524	....Eye or T-type bolt
496	..Split single piece piston ring having opposed asymmetrical mirrored ends	525	....Internally threaded
497	...Arcuate or beveled mating surfaces	526	....Externally threaded
498	..Split single piece piston ring having other than opposed asymmetrical mirrored ends	527	...Wear sleeve
499	...Arcuate or beveled mating surfaces	528	..Helically coiled packing
500	.Circumferential contact seal for other than piston	529	..Having particular cross- sectional seal profile
501	..And magnetic bias	530	....C-, M-, U-, V-, X-, or Z- shaped
502	..For valve stem in internal combustion engine	531	....Wedging surface
503	..Accommodates gyratory or oscillatory motion	532	....Made of elastomer or plastic
504	...Flexible connection between seal and another part	533	....Segmented
505	...Oscillates perpendicularly to axis of motion	534	...Particular seal material or construction
506	...Arcuate bearing surface	535	....Composite
507	....Partially spherical	536	....Fibrous component
508	...Axially spring biased	537	.....Braided, woven, or twisted
509	....Coaxial spring	538	....Distinct sheath or covering
510	..Contained or compressed by gland member in packing box	539	...Graphite
		540	...Elastomer or plastic
		541	...Metal
		542	..Consisting of loose-fill type packing
		543	..Segmented ring
		544	...Having pressure balancing or radial bias reduction feature
		545	...Radial biasing spring element other than nominal garter spring
		546	...Particular segment end structure
		547	....Interfitting projection and recess
		548	...Plural complementary interfitting rings

549	..Peripheral radially sealing flexible projection (e.g., lip seal, etc.)	578	..Having circumferentially adjustable biasing element
550	...Made of metal or is a scraper	579	..Having floating ring or bushing (i.e., circumferentially contacting)
551	...Having installation, removal, assembly, disassembly, or repair feature	580	...Radially translatable in groove
552	...Having pressure relief or venting feature	581	...And biased
553	...Bias feature other than nominal garter spring	582	...Made of elastomer or plastic
554	...Embedded spring	583	...Inflatable seal or seal biased by inflatable member
555	...Radially extending finger spring	584	..Extrusion preventing (i.e., antiextrusion) structure
556	...Material other than metal	585	..Elongated sleeve or bushing
557	...Axially extending helical or spiral spring	586	..Seated in groove having stepped walls
558	...Particular fluid pressure responsive bias	587	..Seated in groove having oblique wall
559	..Hydrodynamic sealing feature	589	..Radially backed by resilient or elastomeric member
560	...Dimensional aspect of the flexible projection (e.g., angle, length, radius, thickness, etc.)	590	SEAL BETWEEN FIXED PARTS OR STATIC CONTACT AGAINST RELATIVELY MOVABLE PARTS
561	...Intermediate flexible bending portion	591	.Contact seal between parts of internal combustion engine
562	...Plural peripheral radially sealing flexible projections	592	..Particular coating or layer of sealing material
563	...Having interposed fluid receiver or director	593	..Having compression limiting feature
564	...Having insert between the flexible projections	594	..Particular dimensions or configuration of sealing bead or formation
565	...On radial facing side of single seal	595	...Metallic
566	....Both radial sides of the single seal (e.g., X-shaped, Y-shaped, etc.)	596	...Elastomeric
567	....Radially facing U or V cross-sectional profile	597	..Heat dissipating, cooling, or insulating feature
568	....Including an excluder or wiper	598	..Having installation, removal, assembly, disassembly, or repair feature
569	...Lining or insert	599	..Having flow restrictor
570	..Made entirely of fluorocarbon material	600	..Covering member or eyelet for opening
571	..Wear sleeve	601	...Covering fire ring or sealing formation
572	...Particular mounting, frame, casing, or reinforcement feature	602	.Contact seal for a pipe, conduit, or cable
573	...Peripheral mounting static seal	603	..Plural interfitting seal members for installation on the individual joined pipes, conduits, or cables
574	....Protrusion or bead cross-sectional profile	604	..Allows rolling or folding
575	....Secured by molding or bonding	605	..Hollow, fluid-filled, or inflatable
576	....Secured by clamping	606	..And wall
577	....By distinct members	607	..Sleeve type

608	..Inserted between end-to-end pipe, conduit, or cable joint	640	...Anchoring feature extending through seal
609	..Having installation, removal, assembly, disassembly, or repair feature	641	...Groove structure on the seal or part
610	...Spirally wound structure	642	....Channel-shaped
611	...Extrusion preventing (i.e., antiextrusion) or compression limiting feature	643	....Single seat formed by plural recesses
612	...Having plural projections	644	..Particular cross-sectional seal profile
613	...Hose coupling	645	...Hollow or filled chamber
614	...Each end has recess for the seal	646	....Inflatable
615	..Having axially spaced projections	647	...C-, U-, or V-shaped
616	..Having associated mounting or retaining feature	648	...Plural projections along sealing surface
617	...Molded or cast into the pipe, conduit, or cable	649	....Plural projections along opposite sealing surfaces
618	...Axially related or embedded coil spring	650	..Particular sealing material or construction
619	...Axially related backing ring	651	...Embedded reinforcement
620	....Clamping gland	652	...Distinct sheath or covering
621	.....Particular axially acting feature	653	....Metal
622	.....Threaded gland	654	...Plural layers
623	.....Particular gland shape		
624	....And seal secure together		
625	...Particular and located on the pipe, conduit, or cable	CROSS-REFERENCE ART COLLECTIONS	
626	..Particular seal shape	902	SEAL FOR STERLING ENGINE
627	..Particular seal material or construction	903	SEAL FOR ROTATING KILN OR DRUM
628	.Contact seal for other than internal combustion engine, or pipe, conduit, or cable	904	VISCOUS SEAL
629	..Magnetic	905	T-SHAPED OR I-SHAPED RING MEMBER INCLUDING SEAL ON A SIDE
630	..Having installation, removal, assembly, disassembly, or repair feature	906	SEAL FOR ARTICLE OF INDEFINITE LENGTH (E.G., STRIP, SHEET, ETC.)
631	..Split including end joining structure	907	PASSAGEWAY IN ROD OR SHAFT
632	..Segmented periphery	908	SEAL FOR USE IN ROTATING AND RECIPROCATING ARRANGEMENT
633	..Spirally wound structure	909	SIMILAR SEALING STRUCTURES FOR MOUNTING ON PISTON AND ABOUT ROD
634	..Flexible sleeve, boot, or diaphragm	910	O-RING SEAL
635	...Dome-, cup-, or bell-shaped, or for ball joint	911	SEAL COMBINED WITH NOMINAL MOTION TRANSMITTING DEVICE
636	...Tubular or frustoconical shape having corrugated wall portion	912	.Spline connection
637	..Having particular associated mounting or retaining feature	913	SEAL FOR FLUID PRESSURE BELOW ATMOSPHERIC (E.G., VACUUM, ETC.)
638	...Extrusion preventing (i.e., antiextrusion) structure	914	BACKUP SEAL FOR FAILURE OF PRIMARY SEAL
639	...Compression limiting feature	915	SEAL INCLUDING COMPRESSION SET FEATURE
		916	SEAL INCLUDING VIBRATION DAMPENING FEATURE

917	SEAL INCLUDING FRANGIBLE FEATURE	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.	
918	SEAL COMBINED WITH FILTER OR FLUID SEPARATOR		
919	SEAL INCLUDING ELECTRICAL FEATURE		
920	SEAL INCLUDING ELECTROMAGNETIC SHIELDING FEATURE		
921	CLOSURE OR WEATHER STRIP SEAL		
922	BONDING OR JOINING FOR MANUFACTURE OF SEAL		
923	.Shrink-fitting for the assembly of seal		
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