



## US Patents

Cam Followers			
Country	Application No.	Patent No.	Title
US	15046158	10,274,013	CAM FOLLOWER WITH TIRE HAVING AXIAL MOVEMENT MITIGATION FEATURES
US	14211916	8,991,351	NEEDLE ROLLER CAM FOLLOWER FOR HIGHER MILEAGE APPLICATIONS OF LIGHT, MEDIUM AND HEAVY DUTY VEHICLES
US	16276492	10,697,493	CAM FOLLOWER WITH MULTIPLE ROWS OF INDEPENDENTLY OPERATING BEARINGS
US	14993620	9,835,123	ROLLER FOR A FUEL PUMP ACTUATOR
US	15416173	10,167,896	Triple Row Yoke Roller Assembly
US	15824335	10,731,743	CAM FOLLOWER AND YOKE ROLLER ASSEMBLIES
US	16249255	10,458,468	CAM FOLLOWER FOR HIGH THRUST LOAD APPLICATIONS
Other Patents Pending			

Collets and Tool Holders			
Country	Application No.	Patent No.	Title
US	14345360	9,248,508	ADJUSTABLE CLAMPING DEVICE
US	14894725	9,999,931	Locking Mechanism for a Collet Assembly and Collet Assembly Including a Locking Mechanism
US	15/618,389	10,639,726	FLEXIBLE COUPLING FOR ATTACHING A COLLET TO A DRAW BAR
Other Patents Pending			

Duct Couplings			
Country	Application No.	Patent No.	Title
US	15330214	10,625,871	Dynamic Movement Tube Connection System
US	10/456075	6,880,863	Flexible Coupling for Gas Conduits
US	10612498	6,905,144	Spring-Loaded 'L'-Shaped Seal Ring
US	12193898	7,883,094	Offset Stacked Sealing System
Other Patents Pending			

Elastomeric Bearings			
Country	Application No.	Patent No.	Title
Patents Pending			

Fasteners			
Country	Application No.	Patent No.	Title
Patents Pending			

Hydraulics			
Country	Application No.	Patent No.	Title
Patents Pending			

Plain Journal Bearings			
Country	Application No.	Patent No.	Title
US	11842994	7,828,482	Tungsten Carbide Enhanced Bearing
US	12056538	8,038,351	SELF-LUBRICATED BEARING ASSEMBLY
US	12133741	8,033,389	CONVEYOR CHAIN HAVING A LOW FRICTION LINER
Other Patents Pending			

Plain Bearings			
Country	Application No.	Patent No.	Title
US	13945575	8,764,034	STEERING AXLE ASSEMBLY WITH SELF-LUBRICATED BEARINGS
US	15359828	9,856,910	SELF-LUBRICATED THRUST BEARING FOR A HINGED AIRCRAFT WING
US	09/764474	6,485,181	THRUST BEARING ASSEMBLY
US	10/302155	6,799,895	CARTRIDGE-TYPE THRUST BEARING
Other Patents Pending			

Rods			
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Country	Application No.	Patent No.	Title
US	14686413	9,909,613	COMPRESSION ROD HAVING A BUCKLING INITIATING FEATURE
US	15060702	9,841,048	ROTATION ROD ASSEMBLY WITH SELF LUBRICATING LINER OR GROOVED BUSHINGS

### Rolling Element Bearings

Country	Application No.	Patent No.	Title
US	10/897,515	7,007,787	HIGH ENDURANCE HIGH CAPACITY BALL TRANSFER UNIT
US	11704762	8,021,053	ROTARY WING AIRCRAFT BALL BEARING
US	11714484	8,215,845	TANDEM STACK ANGULAR CONTACT BEARING FOR ROTARY WING AIRCRAFT
US	13273756	8,690,446	Thermally Stable Bearings
US	11937538	8,104,779	BEARING FOR FOLLOWER OR CAM
US	13081066	8,132,964	BEARING FOR FOLLOWER OR CAM
US	12170725	8,033,736	SWASHPLATE BEARING ASSEMBLY WITH ENHANCED ALLOYS
US	12170738	7,703,746	Ground-Based Power Generator with Ball-Roller Bearing Butterfly Valve
US	12967400	8,651,810	Ball Bearing and Pump for Cryogenic Use
US	14888968	9,599,151	DOUBLE ROW PRELOADED BALL BEARING WITH SPACER BALLS
US	14/167,466	9,033,587	CAGE FOR A ROLLER BEARING AND A METHOD OF MANUFACTURING
US	14264793	9,303,689	Non-Rhythmically Spaced Rolling Elements for Reduction in Bearing Non-Repeatable Run-Out
US	14/294,947	9,227,720	Composite Annular Seal Assembly for Bearings in Aircraft
US	14468677	9,453,531	Integrated Bearing Assemblies for Guided Attack Rockets
US	14327912	9,695,875	Top Drive Bearing Made of Non-Vacuum Arc Remelted Steel
US	14572260	10,077,808	ROLLER PROFILE FOR HOURGLASS ROLLER BEARINGS IN AIRCRAFT
US	14728402	10,012,265	CORROSION RESISTANT BEARING
US	14/728,426	9,890,814	PRONG CAGE FOR A DOUBLE-ROW CONCAVE ROLLER BEARING FOR THE SUPPORT STRUCTURE OF A FLAP AT THE REAR OF AN AIRCRAFT WING
US	14728452	9,561,845	SUPPORT STRUCTURE OF A FLAP AT THE REAR OF AN AIRCRAFT WING WITH DOUBLE-ROW CONCAVE ROLLER BEARING
US	14/967,632	10,082,179	Seal for Self Aligning Roller Bearing

Other Patents Pending

### Self Lubricated Liners

Country	Application No.	Patent No.	Title
US	12433926	8,034,865	Self-Lubricating Surface Coating Composition for Low Friction or Soft Substrate Applications
US	13053436	8,741,996	Self-Lubricating Surface Coating Composition for Low Friction or Soft Substrate Applications
US	13224795	8,735,481	Self-Lubricating Surface Coating Composition for Low Friction or Soft Substrate Applications
US	14692705	9,919,502	Method and Apparatus for Preparing a Surface for Bonding a Material Thereto
US	14865998	9,982,768	Self Lubricating Cam Follower Assembly
US	15189612	10,161,448	SELF-LUBRICATING COMPOSITE BEARING PAD FOR A RAILWAY TRUCK

Other Patents Pending

### Spherical Plain Bearings

Country	Application No.	Patent No.	Title
US	09/876552	6,626,575	SPHERICAL PLAIN BEARING WITH SPREAD LOCK DUAL SEALING MEANS
US	13682886	8,926,185	SPHERICAL PLAIN BEARING WITH LUBRICATION GROOVE
US	12420331	8,079,607	SPHERICAL BEARING FOR A STEERING JOINT
US	14230512	9,261,132	LOW FRICTION BEARING ASSEMBLY AND LINK APPARATUS
US	13/297648	8,721,184	COMBINATION SPLIT OUTER RING AND SEAL RETENTION METHOD FOR SPHERICAL PLAIN BEARINGS
US	13936574	9,316,257	Spherical bearing with sealing member, method of sealing a spherical bearing and steering assembly comprising said bearing
US	13544458	8,783,953	LOW FRICTION SEAL FOR BEARINGS
US	13715315	8,876,390	SLOTTED BEARINGS WITH WEAR-RESISTANT TREATMENTS FOR GEARBOX MOUNTING IN A GEARED TURBOFAN ENGINE
US	13939736	9,221,475	SELF LUBRICATED SPHERICAL TRANSOM BEARING
US	14/099,121	9,157,480	TWO STAGE SEAL FOR A BEARING ASSEMBLY
US	14619862	9,371,861	Swaged Bearing Assembly with a Flange Mounted Thereon
US	14682266	9,702,411	Bearing Assembly with Split Outer Ring Having Interference Fit Tabs and Method of Assembly of Bearing
US	14616166	10,208,658	TURBOCHARGER WASTEGATE ACTUATOR HIGH TEMPERATURE ROD END WITH A SPHERICAL BEARING AND A METHOD FOR OPERATING THE ACTUATOR

US	14743353	9,958,011	BEARING ASSEMBLY HAVING SURFACE PROTRUSIONS AND A SEAL
US	14616303	9,562,567	SPHERICAL BEARING WITH AXIALLY COMPRESSED ANNULAR SEAL
US	14871061	10,393,179	A VARIABLE FIXED INSTALLATION TORQUE BEARING
US	14857055	9,482,269	System for Isolating Electrical Current in a Bearing for Use in an Aircraft Structure
US	14967541	9,829,044	SPHERICAL BEARING WITH ANNULAR SEAL HAVING AN AUXILIARY SEAL LEG EXTENDING THEREFROM
US	14999260	10,520,012	A Rod End Having Wear Mitigation Features for an Augmenter Nozzle on a Jet Engine Turbine
US	15295185	9,926,972	SPHEROIDIAL JOINT FOR COLUMN SUPPORT IN A TUNED MASS DAMPER SYSTEM
US	15/634,186	10,487,878	Multiple Stage Seal for a Bearing Assembly
US	15812576	10,655,733	Elastomeric Seal Having Impact Protecting Protrusions
US	16007404	10,480,569	HYBRID LINED TRUNNION BEARING FOR AIRCRAFT LANDING GEAR
US	16131867	10,598,219	BEARING AND SEALING ARRANGEMENT FOR A HAUL TRUCK ARTICULATED JOINT
US	15998157	10,788,073	Rapid Movement Loader Slot Bearing Suitable for Use on Munitions Deployment Structures
<b>Other Patents Pending</b>			

<b>Track Roller Bearings</b>			
Country	Application No.	Patent No.	Title
US	12201062	8,025,257	ACTUATION SYSTEM FOR A LIFT ASSISTING DEVICE AND ROLLER BEARINGS USED THEREIN
US	13114099	8,387,924	ACTUATION SYSTEM FOR A LIFT ASSISTING DEVICE AND ROLLER BEARINGS USED THEREIN
US	13/719,541	10,023,302	ACTUATION SYSTEM FOR A LIFT ASSISTING DEVICE AND ROLLER BEARINGS USED THEREIN
US	14084999	8,851,755	SELF-ALIGNING TRACK ROLLER BEARING
US	14959589	10,400,818	SPLIT INNER OR OUTER RACE ROLLER BEARING WITH ROLLING ELEMENTS
US	15952897	10,443,650	A TWO PART SEAL FOR A TRACK ROLLER BEARING
<b>Other Patents Pending</b>			

<b>Valves</b>			
Country	Application No.	Patent No.	Title
<b>Patents Pending</b>			