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Title: EINRICHTUNG ZUM AUFSETZEN DES PATRONENAUSZIEHERS AUF DIE KAMMER VON MILITAERGEWEHREN UND ZUM WIEDERABNEHMEN DEVICE FOR MOUNTING THE cartridge extractor ON THE BOARD OF MILITAERGEWEHREN AND AGAIN REMOVE (Machine translation)

Abstract: Source: DE503322A [DE] (Claim 1) 1. PATENTANSPRUECHE: i. Zange, gehoeend zu einem Werkzeugsatz zum Aufsetzen des Patronenausziehers auf die Kammer von Militaergewehren und zum Wiederabnehmen des Ausziehers, dadurch gekennzeichnet, dass sie zum Zusammen druecken des Auszieherringes dient und dass zu diesem Zweck die freien Enden (11, 12) des Zangenmaules bei geschlossener Zange einen derartigen Zwischenraum zwischen sich frei lassen, dass sie die nasenartigen Enden (6) des bei abgenommenem Auszieher (2) gespreizten Auszieherringes (7) zusammen pressen, waehrend das eine Ende des Zangen maules einen hakenartigen Ansatz (13) traegt, der den Auszieher beim Aufschieben genau in der Bahn der Ringnasen (6) fuehrt.

Machine translation: (claim 1) 1 Claims: i pliers belonging serves to a **tool** set for placement of the cartridge to the chamber of Militaergewehren and re-removal of the extender, characterized in that for compressing the Auszieherringes and that (11, 12) for this purpose, the free ends of the pliers mouth closed pliers such a gap can be freely between them, that they have the nose-like ends (6) after lifting the extractor (2) spread Auszieherringes (7) pressed together, while one end of the pliers mouth a hook-like projection (13), carries of the extractor when pushed right in the path of the annular projections (6) leads.

Classifications:

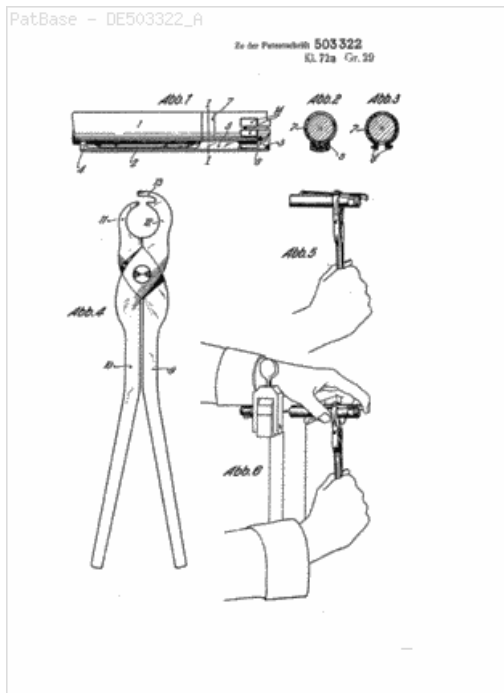
International (IPC 8-9): F41A15/14 (Advanced/Invention);

F41A15/00 (Core/Invention)

International (IPC 1-7): F41C15/02

CPC: F41A15/14

European: F41A15/14



Family:

Publication number	Publication date	Application number	Application date
DE503322 A	19300726	DE1929S091356D	19290428

Priority:

DE1929S091356 19290428 DE1929S091356 19290428 DE1929S091356 19290428

Probable Assignee:

SIMSON AND CO

Assignee(s): (std):

SIMSON AND CO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE503322 A	19300726	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BEARING REMOVING TOOL

Abstract: 1. In a bearing extractor having a thrust plate, legs adjustably mounted in said thrust plate for adjustment relative to the axis of the extractor and adjustable at will for cooperation With the surface of the hearing housing irrespective of its width or the' outside diameter of the bearing within the limits of adjustment, and in which said thrust plate has three equi-angularly spaced bores each with a co-axial counterbore, and each leg consists of a' disc rotatably nting in the coimterborc and having a shaft extending from one face through the bore and threaded at its terminal end, and a leg eccentrically projecting from the opposite face, whereby rotation of the shaft and disc adjusts the span between the legs; 'a nut for each shaft and having a lever arm for adjustment thereof, and a lever arm for each shaft for adjustment of the leg.

Classifications:

International (IPC 8-9): B25B27/06 (Advanced/Invention);

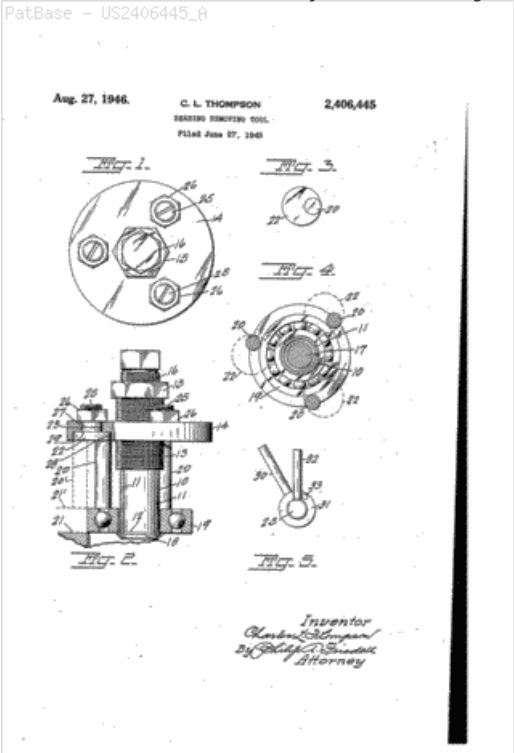
B25B27/02 (Core/Invention)

International (IPC 1-7): B25B27/06

CPC: F16C35/062 B25B27/062 Y10T29/5387 Y10T29/53991

European: B25B27/06B F16C35/06R

US: 29/261 29/283



Family:

Publication number	Publication date	Application number	Application date
US2406445 A	19460827	US19450601731	19450627

Priority:

US19450601731 19450627

Probable Assignee: THOMPSON CHARLES L

Assignee(s): (std): THOMPSON CHARLES L

Inventor(s): (std): THOMPSON CHARLES L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2406445 A	19460827	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: JOURNAL BEARING EXTRACTOR

Abstract: 1. A journal bearing extractor comprising a yoke-like tool having a handle at one end and 9. pair of laterally spaced symmetrical legs at the other end, each of said legs terminating in an up-turned hook and being formed with a localized downward facing concave bend between its hooked end and said handle, and each of said legs having a vertical oft"-set to elevate its hooked end above said bend.

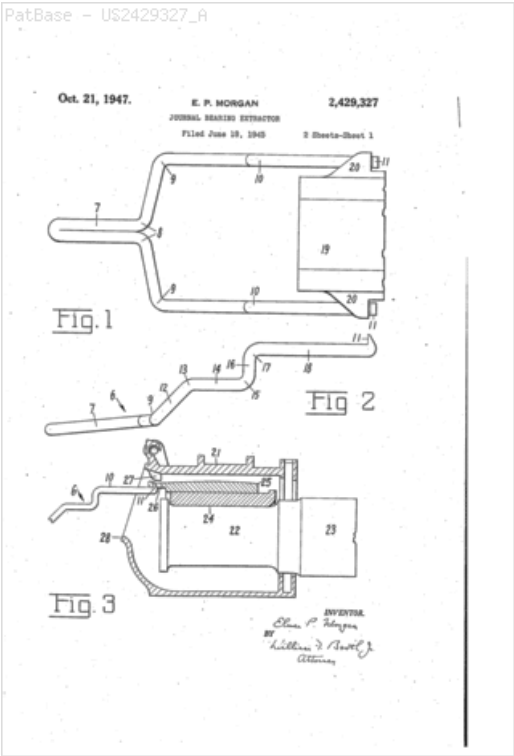
Classifications:

International (ipc 8-9): B25B27/02 B25B27/06 (Advanced/Invention); B25B27/02 (Core/Invention)

CPC: B25B27/02 B25B27/06 Y10T29/513 Y10T29/53896 Y10T29/53909

European: B25B27/02 B25B27/06

US: 29/267 29/270 29/38C



Family:

Publication number	Publication date	Application number	Application date
US2429327 A	19471021	US19450599997	19450618

Priority:

US19450599997 19450618

Probable Assignee:

MORGAN ELMER P

Assignee(s): (std):

MORGAN ELMER P

Inventor(s): (std):

MORGAN ELMER P

Legal status (INPADOC)

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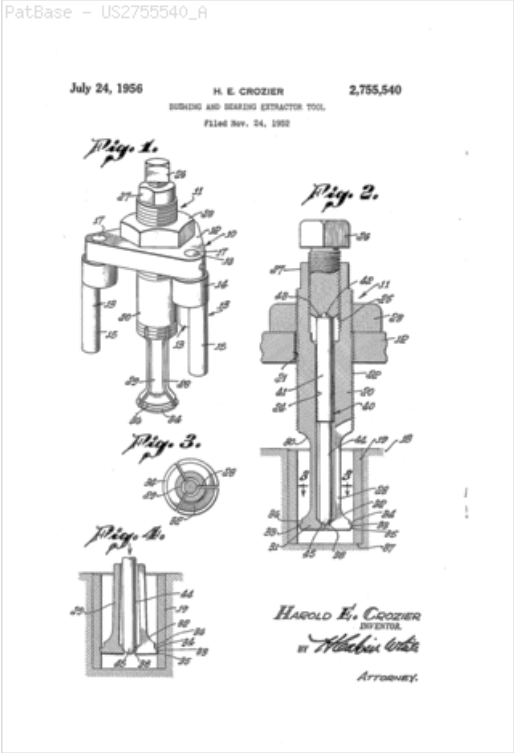
Patent	Date recorded	Event group	Code	Event	Details
US2429327 A	19471021	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BUSHING AND BEARING EXTRACTOR TOOL

Abstract: (Claim 1) 1. A tool for extracting bushings and the like, comprising an externally threaded tubular arbor adapted to be carried for axial adjustment within a supporting table, the inner end extent of said arbor having a length of reduced external diameter and an enlarged diameter terminal portion, said reduced extent and terminal portion being longitudinally slotted to form radially expansible fingers having outer segmental work gripping shoulders on the periphery of said enlarged terminal pordon, segmental inner Wedge shoulders formed on said fingers at the inside of said terminal portion and opposite said outer shoulders, a Wedge pin provided with a convexly curved outer end contained in and movable axially relative to said arbor and acting to engage said inner shoulders and wedge the fingers outwardly upon axial movement of the pin, said wedge shoulders having convexly curved wedge surfaces forming cam faces of decreasing angularity with respect to the arbor axis and adapted to be engaged by said outer surface on the pin in essentially arcuate line Contact with respect to the axis of said pin and in substantially radial alinement with said outer work gripping shoulders, whereby axial wedging movement of said pin against said inner shoulders acts in toggle relationship to wedge the fingers outwardly at a progressively decreasing rate and with progressively increasing force, and screw means threadedly engaging said arbor and the inner end of said pin for actuating said pin axially relative thereto.

Classifications:

International (IPC 8-9): B25B27/02 B25B27/06
B25B27/073 (Advanced/Invention);
B25B27/02 (Core/Invention)
International (IPC 1-7): B25B27/02 G06F3/00
CPC: B25B27/062 B25B27/023 Y10T29/53887
European: B25B27/02B B25B27/06B
US: 29/265



Family:

Publication number	Publication date	Application number	Application date
US2755540 A	19560724	US19520322196	19521124

Priority:

US19520322196 19521124

Probable Assignee: CROZIER HAROLD E
Assignee(s): (std): CROZIER HAROLD E
Inventor(s): (std): CROZIER HAROLD E

Legal status (INPADOC)

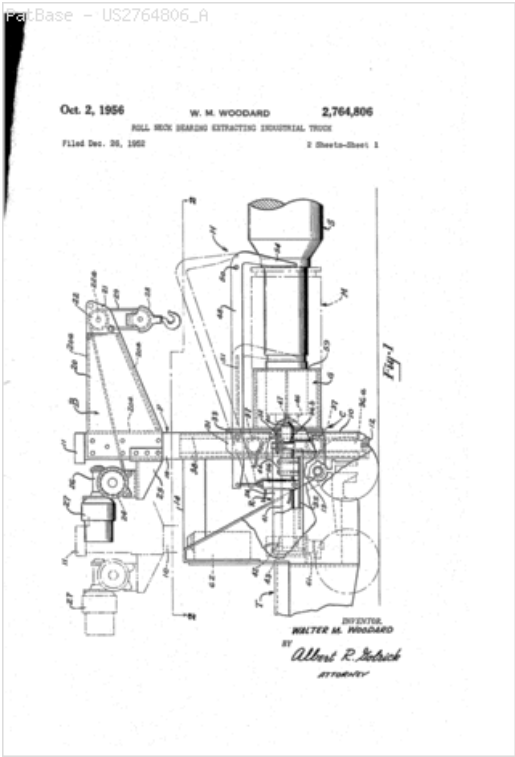
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Patent	Date recorded	Event group	Code	Event	Details
US2755540 A	19560724	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ROLL NECK BEARING EXTRACTING INDUSTRIAL TRUCK

Abstract: (Claim 1) 1. An industrial truck for releasing from each other a press litted roll neck bearing and roll shaft comprising a self-moving vehicle chassis, a vertical elevator frame rigidly mounted on one end of the chassis, the front and back of said elevator frame being open in construction, an elevator carriage mounted in said frame for vertical movement, said carriage having fixed forwardly and rearwardly extending elements with respect to said open vertical frame, a hydraulic ram mounted upon a rearwardly extending platform element tixed to the carriage, said ram being disposed to have an operating end thereof extend beyond the front of the vertical frame structure, a gauge structure on the forward part of the carriage, said gauge structure having an opening aligned with the ram for receiving the end of a roll shaft with a roll neck bearing therein a bearing -engaging hook structure pivotally mounted on the carriage structure extending from the rear of thc vertical frame forwardly of the frame to engage the remote end of a roll neck bearing when the shaft carrying the bearing is disposed in the said opening of the gauge structure.

Classifications:
International (ipc 8-9): B66F9/06 B66F9/12 (Advanced/Invention); B66F9/06 B66F9/12 (Core/Invention)
International (ipc 1-7): B66F9/12
CPC: B66F9/12 B66F9/061 Y10T29/5383 Y10T29/53987
European: B66F9/06B B66F9/12
US: 29/252 29/282



Family:

Publication number	Publication date	Application number	Application date
US2764806 A	19561002	US19520327949	19521226

Priority:

US19520327949 19521226

Probable Assignee: ELWELL PARKER ELECTRIC CO

Assignee(s): (std): ELWELL PARKER ELECTRIC CO ; ELWELL PARKER ELECTRIC COMPANY

Inventor(s): (std): WOODARD WALTER M

Legal status (INPADOC)

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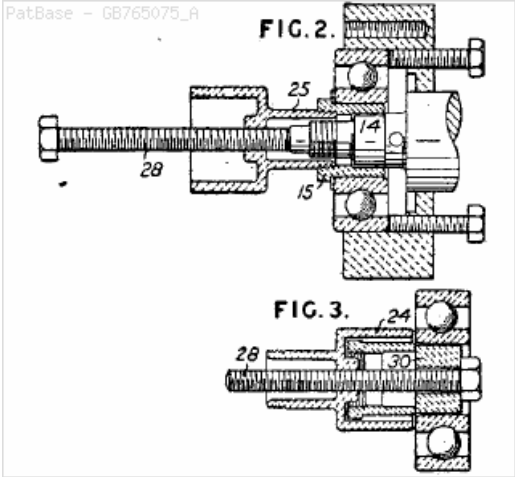
Patent	Date recorded	Event group	Code	Event	Details
US2764806 A	19561002	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: IMPROVEMENTS IN OR RELATING TO MACHINE BEARINGS AND DEVICES FOR EXTRACTING AND DISMANTLING SUCH BEARINGS

Abstract: 765,075. Extracting bearings. CAMPBELL and ISHERWOOD, Ltd., and RAWLINSON, R. Oct. 11, 1954 (Oct. 30, 1953), No. 30005/53. Class 61. [Also in Group XXXIV] A **bearing extractor** comprises a member having a portion 25 which is screwed on to a sleeve 15, disposed between the inner bearing race and a reduced shaft portion 14, and a stud 28 which engages the end of the shaft. Tightening of the stud 28 draws the sleeve 15 and bearing off the shaft. For removal of the sleeve 15 from within the bearing race, the stud 28 is reversed in the extractor and by means of a thick washer 30 disposed between the stud head and sleeve 15 and a larger diameter portion 24 of the **extractor bearing** against the opposite side of the inner race tightening of the stud 28 effects the withdrawal as shown in Fig. 3. A similar method is utilized for forcing the sleeve 15 into the inner race. In a modification the extractor is internally screw threaded and the sleeve externally screw threaded.

Classifications:

International (IPC 8-9): B25B27/06 B25B27/073 F16C35/073 (Advanced/Invention); B25B27/02 F16C35/04 (Core/Invention)
International (IPC 1-7): B25B27/06
CPC: B25B27/062 F16C19/06 F16C35/062 F16C35/073
European: B25B27/06B F16C35/06R F16C35/073



Family:

Publication number	Publication date	Application number	Application date
GB765075 A	19570102	GB19530030005	19531030

Priority:

GB19530030005 19531030

Probable Assignee: ROBERT RAWLINSON
Assignee(s): (std): CAMPBELL AND ISHERWOOD LTD ; ROBERT RAWLINSON
Assignee(s): CAMPBELL AND ISHERWOOD LIMITED

Legal status (INPADOC)

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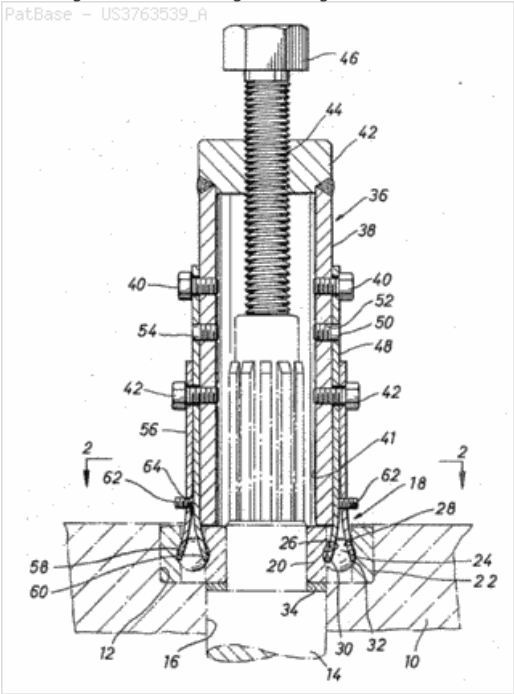
Patent	Date recorded	Event group	Code	Event	Details
GB765075 A	19570102	LSGT	+	granted / extensions (spc, cpc, pte)	
GB765075 A	19731030	PEXP		Calculated Patent Term Expiry	

Title: APPARATUS FOR EXTRACTING BALL BEARINGS

Abstract: Apparatus for extracting ball bearing assemblies and the like that may be received about a shaft and/or may be press-fitted within a bearing recess in such manner that extraction thereof may be very difficult. A **bearing extractor**, having a plurality of pairs of extracting fingers carried thereby, may be brought into engagement with a ball bearing in such manner that the pairs of expandable finger assemblies may be inserted into an annular groove in the bearing assembly defined by spaced inner and outer bearing races. The extracting finger assemblies then may be spread or expanded mechanically to tightly engage one or both of the inner and outer races of the bearing. A threaded force applying member, retained by the housing of the **bearing extractor**, may then be manipulated to apply linear force between the extractor housing and the structure retaining the bearing, thereby extracting the bearing from the bearing retaining structure.

Classifications:

International (IPC 8-9): B25B27/06 (Advanced/Invention);
B25B27/02 (Core/Invention)
International (IPC 1-7): B23P19/04
CPC: F16C35/062 B25B27/062 Y10T29/53861 Y10T29/53865
Y10T29/53878 Y10T29/53991
European: B25B27/06B F16C35/06R
US: 29/20.1 29/201 29/259 29/260 29/263 29/283



Family:

Publication number	Publication date	Application number	Application date
US3763539 A	19731009	US19720225844	19720214

Priority:

US19720225844 19720214

Probable Assignee:	DODD J
Assignee(s): (std):	DODD J
Assignee(s):	DODD J US
Inventor(s): (std):	DODD J
Inventor(s):	DODD J US

Legal status (INPADOC)

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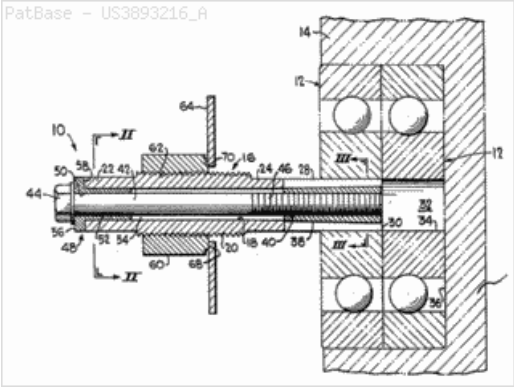
Patent	Date recorded	Event group	Code	Event	Details
US3763539 A	19731009	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: APPARATUS FOR EXTRACTING BEARINGS FROM A SUPPORTING STRUCTURE

Abstract: Apparatus for extracting bearings from a supporting structure includes a cylindrical member having an axial bore therethrough with an intermediate threaded end portion and an expandable second end portion that is positioned in abutting relation with the bore wall of a bearing. The expandable end portion is provided with a plurality of longitudinal radially extending slots to form a plurality of jaws which frictionally engage the bearing bore wall. A rod member having a threaded end portion is axially positioned in the cylindrical member bore. A tapered sleeve member having an internally threaded bore arranged in threaded engagement with the rod member threaded end portion is positioned within the cylindrical member bore. Rotation of the rod member in the cylindrical member advances the sleeve member on the rod member axially within the cylindrical member bore to thereby urge the jaws into frictional engagement with the bearing bore wall. A fastening nut on the cylindrical member intermediate portion is urged into frictional engagement with the bearing surface of a brace member rigidly supported independently of the cylindrical member to maintain the jaws immovable relative to the bearing and move the bearing axially out of the supporting structure.

Classifications:

International (IPC 8-9): B25B27/06 (Advanced/Invention);
B25B27/02 (Core/Invention)
International (IPC 1-7): B25B27/06
CPC: B25B27/062 Y10T29/53857 Y10T29/53887
European: B25B27/06B
US: 29/258 29/265 29/2/650



Family:

Publication number	Publication date	Application number	Application date
US3893216 A	19750708	US19740483257	19740626

Priority:

US19730400124 19730924 US19740483257 19740626

Probable Assignee: KUSHNER STEPHEN R
Assignee(s): (std): KUSHNER STEPHEN R
Inventor(s): (std): KUSHNER STEPHEN R

Legal status (INPADOC)

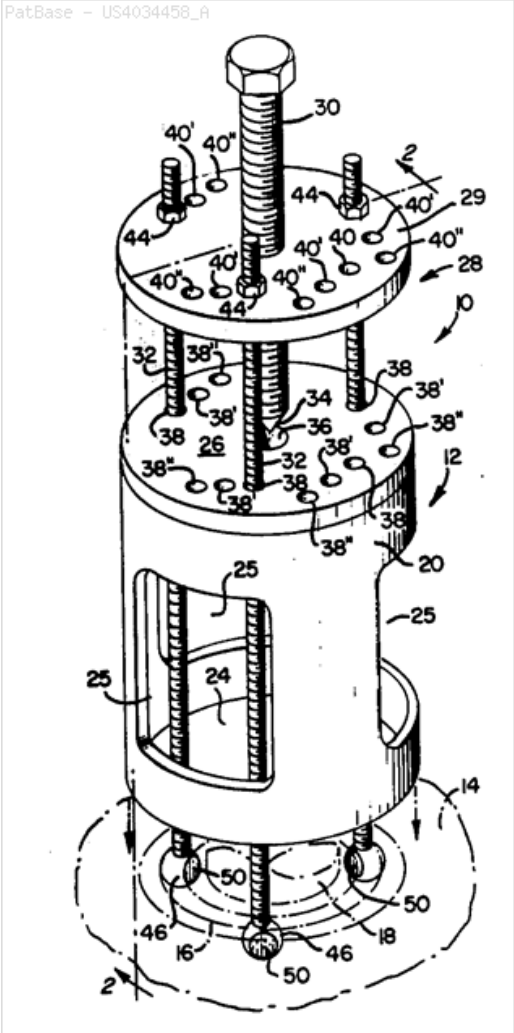
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Patent	Date recorded	Event group	Code	Event	Details
US3893216 A	19750708	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BEARING EXTRACTING **TOOL**

Abstract: A bearing extracting **tool** comprising a reaction housing adapted to be placed against machinery wall structure around the end of a shaft and bearing assembly to extract the bearing assembly; an end plate on the end of the housing away from the bearing assembly; a plurality of lifter bars with lifter elements on one end thereof and abutment members adjustably secured thereto; a lifter plate generally parallel to the end plate and disposed externally of the reaction housing; and a force applying driver member. The lifter bars extend through the reaction housing, reaction housing end plate and the lifter plate with the abutment members secured to the lifter bars beyond the lifter plate, but in abutment therewith. The force applying driver member extends through the lifter plate with one end applied to the reaction housing end plate and a free end accessible to a driving force tending to urge the lifter plate, the abutment members and lifter bars away from the reaction housing whereby a bearing assembly may be extracted from machinery in which it is disposed.

Classifications:
International (IPC 8-9): B23P19/04 B25B27/06 (Advanced/Invention); B25B27/02 (Core/Invention)
International (IPC 1-7): B23P19/04
CPC: Y10T29/53861 B25B27/062
European: B25B27/06B
US: 29/259



Family:

Publication number	Publication date	Application number	Application date
CA1068478 A1	19791224	CA19760264884	19761104
US4034458 A	19770712	US19760687999	19760519

Priority:

US19760687999 19760519

Probable Assignee: DIAMOND INT CORP
Assignee(s): (std): DIAMOND INT CORP
Assignee(s): FORD WILLIAM R ; HALL EVERETT R
Inventor(s): (std): FORD WILLIAM R ; HALL EVERETT R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4034458 A	19770712	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: BALL BEARING CASING REMOVAL UNIT - HAS TWIN STEEL JAWS WHICH FIT AROUND CASING AND ENGAGE WITH SEMICIRCULAR CUT OUTS

Abstract: The ball bearing withdrawal device, removes ball bearing mountings of 16-40mm external diameter from the drive shafts of small electric **tools**. It has a pair of steel jaws which are clamped into the semi-circular cut out sections on the bearing casing. This allows the entire unit to be withdrawn as one when gripped between the jaws of the withdrawal device. The edge of the jaws are profiled to match up with the edges of the bearing casing sections.

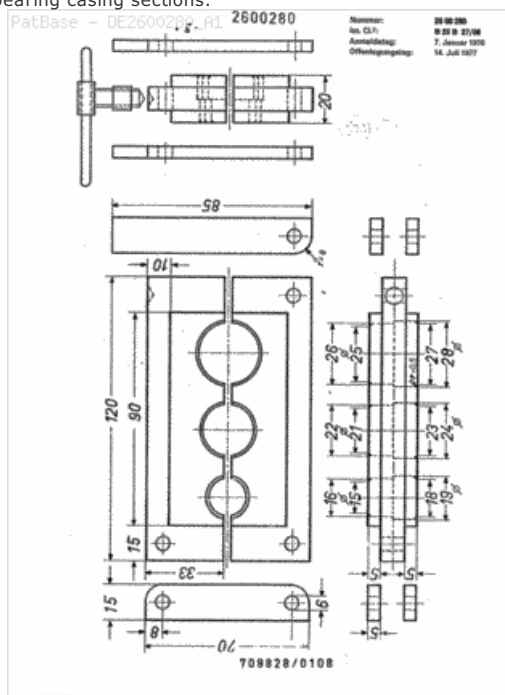
Classifications:

International (IPC 8-9): B25B27/06 (Advanced/Invention);
B25B27/02 (Core/Invention)

International (IPC 1-7): B25B27/06

CPC: B25B27/06

European: B25B27/06



Family:

Publication number	Publication date	Application number	Application date
DE2600280 A1	19770714	DE19762600280	19760107

Priority:

DE19762600280 19760107

Probable Assignee:

HACKS HEINZ

Assignee(s): (std):

HACKS HEINZ

Inventor(s): (std):

HACKS HEINZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE2600280 A1	19770714	LSPB	+	published / reissued	