

Title (en)  
SHAFT COMPRISING A PART CONNECTED THERETO BY WELDING

Title (de)  
WELLE MIT MITTELS SCHWEISSUNG MIT IHR VERBUNDENEM TEIL

Title (fr)  
ARBRE COMPORTANT UNE PIECE SOUDEE A CE DERNIER

Publication  
**EP 1368573 A1 20031210 (DE)**

Application  
**EP 02703386 A 20020307**

Priority  
• AT 0200073 W 20020307  
• AT 1692001 U 20010307

Abstract (en)  
[origin: WO02070911A1] The invention relates to a shaft (1) comprising a rotating element (2) secured thereon, which comprises a solid surface perpendicular to the axis (3) of the shaft, whereby the welding is carried out in the groove formed between the bearing surface (4) of the shaft and the axis normal surface (6, 8) of the elements. In order to achieve a durable connection without impending the rotation thereof, a welding bead begins on a starting point (21) on the surface (6, 8) perpendicular to the axis (3) is guided towards the groove, whereupon it is re-guided to an end point (21') on the surface (6, 8) perpendicular to the axis of the shaft.

IPC 1-7  
**F16D 1/068**; **B23K 9/028**

IPC 8 full level  
**F16C 3/18** (2006.01); **B23K 9/00** (2006.01); **B23K 9/028** (2006.01); **B23K 10/02** (2006.01); **F16D 1/068** (2006.01)

CPC (source: EP US)  
**B23K 9/0286** (2013.01 - EP US); **B23K 10/02** (2013.01 - EP US); **F16D 1/068** (2013.01 - EP US); **F16F 15/264** (2013.01 - EP US); **Y10T 74/2183** (2015.01 - EP US); **Y10T 403/477** (2015.01 - EP US)

Citation (search report)  
See references of WO 02070911A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02070911 A1 20020912**; AT 5144 U1 20020325; CA 2440084 A1 20020912; EP 1368573 A1 20031210; JP 2004522913 A 20040729; US 2004136776 A1 20040715; US 7137897 B2 20061121

DOCDB simple family (application)  
**AT 0200073 W 20020307**; AT 1692001 U 20010307; CA 2440084 A 20020307; EP 02703386 A 20020307; JP 2002569597 A 20020307; US 47122504 A 20040225