

Title (en)  
METHOD FOR THE PRODUCTION OF A SHAFT-HUB CONNECTION

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER WELLE-NABEVERBINDUNG

Title (fr)  
PROCEDE D'OBTENTION D'UN ASSEMBLAGE ARBRE-MOYEU

Publication  
**EP 1278967 A1 20030129 (DE)**

Application  
**EP 01938150 A 20010503**

Priority  
• DE 10021901 A 20000505  
• EP 0104952 W 20010503

Abstract (en)  
[origin: WO0186161A1] The invention relates to a method for the production of a shaft-hub connection. A toothed or splined shaft with external teeth, is engaged in an internal spline of a hub with some play and with teeth in recesses and the external teeth of the shaft are pressed into the internal toothing of the hub. According to the invention, in order to permit a simple, reproducible production of a shaft-hub connection, which optimally fulfils the demands of dynamic loadings, the shaft, when in the sliding position thereof, is plastically deformed, extending radially outwards from a cavity (10) in the shaft (4) and is pressed on the hub (5) to give a lash-free connection between the recesses (8) of the external teeth (2) on the shaft and the internal teeth (6) on the hub (5) which engage therewith, such that the hub is elastically deformed and a pressfit is established between shaft and hub.

IPC 1-7  
**F16D 1/072**

IPC 8 full level  
**F16D 1/06** (2006.01); **F16D 1/072** (2006.01)

CPC (source: EP US)  
**F16D 1/072** (2013.01 - EP US); **F16D 2001/103** (2013.01 - EP US); **Y10T 29/49465** (2015.01 - EP US); **Y10T 29/49467** (2015.01 - EP US); **Y10T 29/49805** (2015.01 - EP US); **Y10T 29/49911** (2015.01 - EP US); **Y10T 29/49915** (2015.01 - EP US); **Y10T 29/49938** (2015.01 - EP US); **Y10T 29/4994** (2015.01 - EP US); **Y10T 74/19651** (2015.01 - EP US)

Citation (search report)  
See references of WO 0186161A1

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**WO 0186161 A1 20011115**; DE 10021901 C1 20011213; EP 1278967 A1 20030129; JP 2003532850 A 20031105; JP 3837334 B2 20061025; US 2004034981 A1 20040226; US 7076854 B2 20060718

DOCDB simple family (application)  
**EP 0104952 W 20010503**; DE 10021901 A 20000505; EP 01938150 A 20010503; JP 2001582733 A 20010503; US 27539703 A 20030627