

Title (en)  
UNDERCUT FREE CONSTANT VELOCITY JOINT

Publication  
**EP 0484420 A4 19920909 (EN)**

Application  
**EP 90911767 A 19900622**

Priority  
US 38483689 A 19890725

Abstract (en)  
[origin: WO9101453A1] A constant velocity universal joint for transmitting driving torque between rotative members, such universal joint including a hub fixed to one of the rotative members and an outer joint member attached to the hub, an inner joint member attached to another one of the rotative members and a ball containing cage positioned between the outer joint member and the inner joint member. The balls are engaged in ball races positioned in the outer joint member and in the inner joint member. The ball races are sloped so as to provide maximum material at the location of highest stress, the major ball races being of the undercut free design.

IPC 1-7  
**F16D 3/16**; **F16D 3/50**

IPC 8 full level  
**F16D 3/2237** (2011.01); **F16D 3/224** (2011.01)

CPC (source: EP KR)  
**F16D 3/16** (2013.01 - KR); **F16D 3/2237** (2013.01 - EP); **F16D 3/224** (2013.01 - EP); **F16D 2003/22313** (2013.01 - EP);  
**F16D 2300/12** (2013.01 - EP)

Citation (search report)  
• [X] DE 2522670 B1 19760506 - LOEHR & BROMKAMP GMBH  
• [Y] FR 2623579 A1 19890526 - UNI CARDAN AG [DE]  
• [X] GB 2206949 A 19890118 - SPICER HARDY LTD  
• [Y] US 1975758 A 19341002 - STUBER BERNARD K  
• See references of WO 9101453A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 9101453 A1 19910207**; AU 6061190 A 19910222; AU 644806 B2 19931223; BR 9007553 A 19920623; CA 2016894 A1 19910125;  
CN 1028665 C 19950531; CN 1049050 A 19910206; EP 0484420 A1 19920513; EP 0484420 A4 19920909; ES 2024838 A6 19920301;  
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