

Title (en)
METHOD OF MANUFACTURING SHEET METAL BACK FACE PULLEY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER RÜCKSEITENRIEMENSCHLEIBE AUS METALL

Title (fr)
METHODE POUR FABRIQUER UNE POULIE À FACE ARRIÈRE EN TÔLE

Publication
EP 1834715 A4 20100526 (EN)

Application
EP 04822553 A 20041210

Priority
JP 2004018471 W 20041210

Abstract (en)
[origin: EP1834715A1] In the invention, a sheet metal-made cup-shaped material (4) comprising: a circular base plate portion (2); and a cylindrical portion (3) which extends from an outer peripheral edge portion of the base plate portion (2) in one direction along the axis of the base plate portion (2) is prepared, an annular expansion (40) that is radially outward expanded is formed in the cylindrical portion (3), and the annular expansion (40) and the cylindrical portion (3) are clampingly pressed by a rotary lower mold (5) and a flat-face forming rolling roller (16) to a degree at which the annular expansion (40) disappears, whereby the outer circumferential face (30) of the cylindrical portion (3) is flatly formed. Therefore, the axial length (h4) of a sheet metal-made back face pulley (11) is increased, and the increased axial length (h4) can be used as the effective length.

IPC 8 full level
B21H 1/04 (2006.01); **B21D 53/26** (2006.01)

CPC (source: EP US)
B21D 53/261 (2013.01 - EP US); **B21H 1/04** (2013.01 - EP US); **Y10T 29/4946** (2015.01 - EP US)

Citation (search report)

- [X] US 5123166 A 19920623 - KANEMITSU TOSHIKI [JP], et al
- [X] US 5129146 A 19920714 - KANEMITSU TOSHIKI [JP], et al
- [A] JP H07236932 A 19950912 - KANEMITSU KK
- [A] DE 19860045 A1 20000511 - KANEMITSU AKASHI KK [JP]
- [A] US 5619879 A 19970415 - FRIESE UDO [DE]
- See references of WO 2006061909A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1834715 A1 20070919; EP 1834715 A4 20100526; CN 100455376 C 20090128; CN 101076414 A 20071121; JP 4677414 B2 20110427; JP WO2006061909 A1 20080605; US 2007266560 A1 20071122; WO 2006061909 A1 20060615

DOCDB simple family (application)
EP 04822553 A 20041210; CN 200480044557 A 20041210; JP 2004018471 W 20041210; JP 2006546604 A 20041210; US 79170907 A 20070529