

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

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Application
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Priority
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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.

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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 TOSHIAKI [JP], et al
- [X] US 5129146 A 19920714 - KANEMITSU TOSHIAKI [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

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