

Title (en)

A method for manufacturing wheel discs, particularly for commercial vehicles

Title (de)

Herstellungsverfahren für Radscheiben, insbesondere für Nutzfahrzeuge

Title (fr)

Procédé de fabrication de disques de roue, en particulier pour des véhicules commerciaux

Publication

EP 1867408 A1 20071219 (EN)

Application

EP 07110348 A 20070615

Priority

IT TO20060437 A 20060615

Abstract (en)

The method comprises the operations of: - providing a strip (1) of sheet metal; - curving this sheet-metal strip (1) and welding together its end portions (1a, 1b) so as to form a cylindrical ring (2) with a predefined diameter (d); - subjecting the ring (2) to a first pressing operation so as to produce, by means of plastic deformation, a first annular shell part (3) shaped substantially in the manner of a truncated cone or annular sphere segment, having at its ends a smaller opening (3a) and a larger opening (3b), respectively, which are separated from each other by a predefined distance or height (h); - subjecting this first shell part (3) to at least one second pressing operation so as to produce, by means of plastic deformation, a second annular shell part (4), which is again substantially in the form of a truncated cone, having a flattened, central, annular part (4c) and having a smaller height (h₂) and a larger opening (4b) bigger than those of the said first shell part (3); and - subjecting said second annular shell part (4) to a final shaping operation so as to provide it with the desired form of the wheel disc (5).

IPC 8 full level

B21D 53/26 (2006.01)

CPC (source: EP)

B21D 53/264 (2013.01); **B21D 53/265** (2013.01)

Citation (search report)

- [X] US 2349738 A 19440523 - LE JEUNE FRANK H
- [X] US 2983033 A 19610509 - COX DARWIN S
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- [A] US 2174640 A 19391003 - SINCLAIR CHARLES W
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EP2138250A3; CN103128509A; EP2688694A4; EP2138250A2; WO2012127491A2

Designated contracting state (EPC)

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