Title (en)

HOT EXTRUSION PROCESS FOR PRODUCING A METAL PART, EXTRUSION TOOL FOR IMPLEMENTING IT AND LANDING GEAR ROD THUS PRODUCED

Title (de)

HEISSEXTRUSIONSVERFAHREN ZUR HERSTELLUNG EINES METALLTEILS, EXTRUSIONSWERKZEUG ZUR DURCHFÜHRUNG DES VERFAHRENS UND AUF DIESE WEISE HERGESTELLTE FAHRWERKSTANGE

Title (fr)

PROCÉDÉ DE FILAGE À CHAUD POUR RÉALISER UNE PIÈCE MÉTALLIQUE, OUTIL DE FILAGE POUR SA MISE EN OEUVRE ET TIGE DE TRAIN D'ATTERRISSAGE AINSI RÉALISÉE

Publication

EP 2707157 A1 20140319 (FR)

Application

EP 12720477 A 20120504

Priority

• FR 1154020 A 20110510
• EP 2012058235 W 20120504

Abstract (en)

[origin: WO2012152687A1] Hot extrusion process and tool for producing a metal part (1), such as a landing gear, possessing a flow stress of 200 MPa or more when cold and comprising a tubular portion (2) one of the two ends of which is extended by a complex shape (3), said process comprising, after heating and hot transfer of the billet (11) to an extrusion press (6): at least one direct extrusion step using a first mandrel (4) in order to produce the complex shape (3); and at least one indirect extrusion step with a second mandrel (5) replacing the first, the second mandrel moving in the same direction and in the same way as the first mandrel (4) in the same extrusion tool (6) so as to produce all of the tubular portion (2) of the part (1).

IPC 8 full level

B21C 23/03 (2006.01); **B21C 23/18** (2006.01); **B21K 21/00** (2006.01); **B29C 48/48** (2019.01); **B64C 25/00** (2006.01)

CPC (source: EP US)

B21C 23/035 (2013.01 - EP US); **B21C 23/186** (2013.01 - EP US); **B21C 37/06** (2013.01 - US); **B21K 21/00** (2013.01 - EP US); **B29C 48/48** (2019.01 - EP US); **B64C 25/001** (2013.01 - US); Y10T 428/12389 (2015.01 - EP US)

Citation (search report)

See references of WO 2012152687A1

Citation (examination)

• DE 19649471 A1 19980604 - SEMPELL BABCOCK AG [DE]
• US 2372011 A 19450320 - FREDERIC REMINGTON, et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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