

Title (en)

METHOD FOR MANUFACTURING ANNULAR MOLDED ARTICLE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON RINGFÖRMIGEN FORMKÖRPERN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ARTICLE MOULÉ EN FORME D'ANNEAU

Publication

EP 2979774 A1 20160203 (EN)

Application

EP 14775622 A 20140328

Priority

- JP 2013069205 A 20130328
- JP 2014059277 W 20140328

Abstract (en)

The present invention is directed to a method for manufacturing an annular formed body comprising a forging step of forging an alloy piece to provide a forged body having a disc shape, and a ring rolling step of ring-rolling an annular intermediate body prepared by forming a through-hole in the forged body to provide an annular formed body, characterized in that the forging step comprises at least two hot forging steps, each of the hot forging steps being carried out under the conditions that a strain rate is at most 0.5 s^{-1} , an absolute value μ_{\perp} of strain to the forged body in its circumferential direction is at least 0.3, an absolute value μ_h of strain to the forged body in its height direction is at least 0.3, and a ratio μ_h/μ_{\perp} between the absolute values of strain is within a range from 0.4 to 2.5.

IPC 8 full level

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Cited by

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EP 2979774 A1 20160203; **EP 2979774 A4 20160928**; **EP 2979774 B1 20221116**; CN 105228771 A 20160106; ES 2932530 T3 20230120; JP 2014188580 A 20141006; JP 6292761 B2 20180314; MX 2015013639 A 20160602; RU 2015146287 A 20170504; RU 2631221 C2 20170919; WO 2014157662 A1 20141002

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