

Title (en)

METHOD FOR MANUFACTURING ANNULAR FORMED BODY

Title (de)

VERFAHREN ZUR HERSTELLUNG VON RINGFÖRMIG GEFORMTEN KÖRPER

Title (fr)

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

Publication

**EP 2979774 B1 20221116 (EN)**

Application

**EP 14775622 A 20140328**

Priority

- JP 2013069205 A 20130328
- JP 2014059277 W 20140328

Abstract (en)

[origin: EP2979774A1] 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  $0.5 \text{ s}^{-1}$ , an absolute value  $\mu_{\perp}$  of strain to the forged body in its circumferential direction is at least 0.3, an absolute value  $\mu_h$  of strain to the forged body in its height direction is at least 0.3, and a ratio  $\mu_h/\mu_{\perp}$  between the absolute values of strain is within a range from 0.4 to 2.5.

IPC 8 full level

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CPC (source: EP RU)

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Cited by

RU2699428C1; EP3854902A4; EP3854901A4

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