

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 A4 20160928 (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  $\mu_1$  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  $\mu_h/\mu_1$  between the absolute values of strain is within a range from 0.4 to 2.5.

IPC 8 full level

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Citation (search report)

- [YD] JP 2011255409 A 20111222 - MITSUBISHI MATERIALS CORP
- [Y] EP 2019150 A1 20090128 - GEN ELECTRIC [US]
- [A] EP 2423434 A2 20120229 - GEN ELECTRIC [US]
- [A] GB 2225790 A 19900613 - GEN ELECTRIC [US]
- [A] JP 2011255410 A 20111222 - MITSUBISHI MATERIALS CORP
- See references of WO 2014157662A1

Cited by

EP3854902A4; RU2699428C1; EP3854901A4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

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