

Title (en)
PIPE MEMBER MANUFACTURING METHOD

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ROHRMATERIAL

Title (fr)
PROCÉDÉ DE FABRICATION D'ÉLÉMENT TUYAU

Publication
EP 4039382 A4 20220810 (EN)

Application
EP 21777922 A 20210115

Priority
• JP 2020203105 A 20201208
• JP 2021001208 W 20210115

Abstract (en)
[origin: EP4039382A1] To provide a technique that reduces an amount of energy consumption at manufacture of a pipe material having a high strength and improves a recyclability of the manufactured pipe material. First, a long, solid raw material made of a steel material containing 0.05 to 0.25 weight% C is prepared. Subsequently, the prepared raw material is cut to form a solid billet. After that, the solid billet is processed into a hollow blank 920. Then, warm extrusion molding is performed on the hollow processed blank 920 to be molded in a tubular shape.

IPC 8 full level
B21C 23/01 (2006.01); **B21C 23/00** (2006.01); **B21C 23/08** (2006.01); **B21C 29/00** (2006.01); **B21J 5/10** (2006.01); **C21D 7/00** (2006.01)

CPC (source: EP)
B21C 23/001 (2013.01); **B21C 23/002** (2013.01); **B21C 23/01** (2013.01); **B21C 23/085** (2013.01); **B21C 29/003** (2013.01); **B21J 5/10** (2013.01); **C21D 1/32** (2013.01); **C21D 7/00** (2013.01); **C21D 7/02** (2013.01); **C21D 8/105** (2013.01); **C21D 9/08** (2013.01)

Citation (search report)
• [XY] CN 106694768 B 20180508
• [XY] DE 1247118 B 19670810 - IND DE PREC MARTII I P M S A
• [A] FR 786940 A 19350914 - SCHLOEMANN AG
• [Y] US 2012325364 A1 20121227 - KOCHI TAKUYA [JP], et al
• [Y] JP 5629598 B2 20141119
• See references of WO 2022123798A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4039382 A1 20220810; EP 4039382 A4 20220810; EP 4039382 B1 20230809; CN 114916223 A 20220816; JP 2022090676 A 20220620; JP 7010441 B1 20220126; WO 2022123798 A1 20220616

DOCDB simple family (application)
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