

Title (en)

STRETCH-REDUCING MILL HAVING IMPROVED DIAMETER TOLERANCE AND WALL THICKNESS TOLERANCE

Title (de)

STRECKREDUZIERWALZWERK MIT VERBESSERTER DURCHMESSER- UND WANDDICKENTOLERANZ

Title (fr)

LAMINOIR DE RÉDUCTION D'ÉTIRAGE À TOLÉRANCE DE DIAMÈTRE ET D'ÉPAISSEUR DE PAROI AMÉLIORÉE

Publication

EP 3793755 B1 20230726 (DE)

Application

EP 19723369 A 20190508

Priority

- DE 102018207908 A 20180518
- EP 2019061761 W 20190508

Abstract (en)

[origin: WO2019219463A1] A stretch-reducing mill (1) for producing seamless pipes (R), which comprises a plurality of roll stands (10), which are arranged one after the other in a conveying direction (F) of the pipes (R) and each have three rolls (11) arranged at an angular distance of 120°, wherein the roll stands (10) are divided into at least two groups (A, B) each having at least two roll stands (10); the rolls (11) of adjacent roll stands (10) within a group (A, B) are staggered relative to each other by an intra-group angle α_l ; and the rolls (11) of the roll stands (10) of adjacent groups (A, B) are staggered relative to each other by a group angle α_G that is less than the intra-group angle α_l .

IPC 8 full level

B21B 17/14 (2006.01)

CPC (source: EP RU US)

B21B 17/14 (2013.01 - EP RU US); **B21B 31/00** (2013.01 - RU); **B21B 27/024** (2013.01 - EP); **B21B 2267/18** (2013.01 - EP)

Citation (examination)

- JP 2013230500 A 20131114 - NIPPON STEEL & SUMITOMO METAL CORP
- CN 101773937 A 20100714 - TAIYUAN TONGZE HEAVY INDUSTRY
- CN 101823076 A 20100908 - TAIYUAN TONGZE HEAVY IND CO
- JP 2002066609 A 20020305 - KAWASAKI STEEL CO
- JP 2001129603 A 20010515 - KAWASAKI STEEL CO
- DE 19758107 A1 19990624 - MANNESMANN AG [DE]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

DE 102018207908 A 20180518; AR P190101324 A 20190517; CN 201980033062 A 20190508; EP 19723369 A 20190508; EP 2019061761 W 20190508; RU 2020137065 A 20190508; US 201917054641 A 20190508