

Title (en)

PIPE MATERIAL CORRECTION APPARATUS AND PIPE MATERIAL CORRECTION METHOD

Title (de)

RÖHRENMATERIALKORREKTURVORRICHTUNG UND RÖHRENMATERIALKORREKTURVERFAHREN

Title (fr)

APPAREIL DE CORRECTION DE MATIÈRE EN TUBE ET PROCÉDÉ DE CORRECTION DE MATIÈRE EN TUBE

Publication

EP 2695685 A1 20140212 (EN)

Application

EP 12768484 A 20120406

Priority

- JP 2011086185 A 20110408
- JP 2012084810 A 20120403
- JP 2012059528 W 20120406

Abstract (en)

The apparatus is used for reforming a pipe member by improving the roundness of an axial region which is at least a part of the pipe member in a direction of an axis of the pipe member, the apparatus includes: an anvil ring disposed outside the pipe member so that a circularly-formed inner circumference face of the anvil ring is opposed to an outer circumference face of the axial region; an inner roller disposed inside the pipe member so that an outer circumference face of the inner roller is in contact with an inner circumference face of the axial region; a pressing unit which applies a pressure contact force between the inner circumference face of the anvil ring and the outer circumference face of the pipe member, thereby causing plastic deformation at the axial region by using the inner circumference face of the anvil ring as a reforming face; and a rotation unit which rotates the pipe member with respect to the inner roller around the axis of the pipe member.

IPC 8 full level

B21D 3/14 (2006.01)

CPC (source: EP KR)

B21D 3/02 (2013.01 - EP KR); **B21D 3/14** (2013.01 - EP KR)

Cited by

CN109420691A; CN105268780A; CN111589904A

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)

EP 2695685 A1 20140212; **EP 2695685 A4 20140827**; **EP 2695685 B1 20160224**; AU 2012240903 A1 20131031; AU 2012240903 B2 20150730; JP 2012223817 A 20121115; JP 5927008 B2 20160525; KR 101523870 B1 20150528; KR 20130133906 A 20131209; MY 164169 A 20171130; WO 2012137924 A1 20121011

DOCDB simple family (application)

EP 12768484 A 20120406; AU 2012240903 A 20120406; JP 2012059528 W 20120406; JP 2012084810 A 20120403; KR 20137029470 A 20120406; MY PI2013701858 A 20120406