Title (en)

PRESS MOLD AND METHOD FOR MANUFACTURING STEEL PIPE

Title (de)

PRESSFORM UND VERFAHREN ZUR HERSTELLUNG EINES STAHLROHRS

Title (fr)

MOULE DE PRESSE ET PROCÉDÉ DE FABRICATION DE TUYAU EN ACIER

Publication

EP 3597322 A1 20200122 (EN)

Application

EP 18767918 A 20180306

Priority

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- JP 2018008489 W 20180306

Abstract (en)

A press die for use in a steel pipe forming process of bending a plate material to form a preformed body having a U-shaped cross section, pressing the preformed body to form an open pipe, which is a tubular body having a seam gap portion in a longitudinal direction, and thereafter joining the seam gap portion to form a steel pipe. The press die includes a pair of dies. The preformed body is installed in one of the pair of dies such that the other die is opposed to a U-shaped open side of the preformed body, and the preformed body is pressed while the preformed body is held between the pair of dies. A surface of each die to be in contact with the preformed body has an arc portion having a diameter equal or substantially equal to an outer diameter of the steel pipe such that an arc center is located at a position coincident with a bending center of the die. The arc portion in each die has a central angle equal to or larger than 70 degrees, and a total angle of the central angles of the dies is smaller than 360 degrees.

IPC 8 full level

B21D 5/01 (2006.01)

CPC (source: EP KR RU)

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