

Title (en)  
STEEL-PIPE SHAPING METHOD AND SHAPING DEVICE USING THREE-POINT BENDING

Title (de)  
STAHLROHRFORMVERFAHREN UND FORMVORRICHTUNG MIT DREIPUNKT-BIEGEN

Title (fr)  
PROCÉDÉ DE FORMAGE DE TUBE EN ACIER ET DISPOSITIF DE FORMAGE UTILISANT UNE FLEXION EN TROIS POINTS

Publication  
**EP 3127625 A4 20170802 (EN)**

Application  
**EP 15773059 A 20150330**

Priority  
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• JP 2015059835 W 20150330

Abstract (en)  
[origin: EP3127625A1] Provided is a method for forming a steel pipe for forming a steel plate as raw material into a substantially cylindrical shape, by first half forming performing three-point bending-press a plurality of times from one plate width end portion of the steel plate as raw material toward a plate width center, second half forming performing three-point bending-press a plurality of times from the other plate width end portion toward the plate width center, and final forming performing the three-point bending-press on the plate width central portion, wherein the first half forming is divided into preceding forming performed before the second half forming and succeeding forming performed after the second half forming, and a ratio of a forming range in the preceding forming to the steel plate width is set in a range of more than 0.17 to less than 0.46. Thus, a producible maximum diameter of the steel pipe is enlarged without modifying the equipment of the existing pressing machine.

IPC 8 full level  
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Citation (search report)  
• [X] WO 2014024287 A1 20140213 - JFE STEEL CORP [JP], et al  
• [X] JP 2012170977 A 20120910 - JFE STEEL CORP  
• [X] WO 2012092909 A1 20120712 - UNIV DORTMUND TECH [DE], et al  
• [E] EP 3127624 A1 20170208 - JFE STEEL CORP [JP]  
• [A] WO 2009023973 A1 20090226 - SOUTEC SOUDRONIC AG [CH], et al  
• See also references of WO 2015152108A1

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JP 6112740 B2 20170412; KR 101852704 B1 20180426; KR 20160127119 A 20161102; RU 2016142577 A 20180503;  
RU 2016142577 A3 20180503; RU 2655511 C2 20180528; SA 516371949 B1 20200223; WO 2015152108 A1 20151008

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