

Title (en)  
METHOD FOR PRODUCING STEEL PIPE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES STAHLROHRS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN TUBE D'ACIER

Publication  
**EP 3006133 A4 20160629 (EN)**

Application  
**EP 13885377 A 20130524**

Priority  
JP 2013064525 W 20130524

Abstract (en)  
[origin: EP3006133A1] A method for manufacturing a steel pipe includes forming a steel plate into a cylindrical shape by a bending press method that presses down the steel plate with a punch having, at a leading edge thereof, an outer circumferential surface with a circular arcuate section so that edges in a width direction of the steel plate face each other; butting and welding together the edges in the width direction of the steel plate; and expanding the steel pipe from the inside using a pipe expanding machine in which a plurality of pipe expanding dies having an outer circumferential surface with a circular arcuate section are circumferentially arranged, wherein a pipe expanding R ratio that is a ratio of a curvature radius of the outer circumferential surface of each of the pipe expanding dies to a target radius of an inner surface of the steel pipe and a punch R ratio that is a ratio of a curvature radius of an outer circumferential surface of a leading end of the punch to the target radius of the inner surface of the steel pipe are both less than 1, and the pipe expanding R ratio and the punch R ratio satisfy a predetermined conditional expression. As a result, a steel pipe with high roundness can be manufactured without cracking a pipe expanding die.

IPC 8 full level  
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• No further relevant documents disclosed  
• See references of WO 2014188599A1

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