

Title (en)
EMBOSSED PIPE MANUFACTURING APPARATUS FOR EASILY WELDING BOTH SIDES OF EMBOSSED METAL SHEET AND EMBOSSED PIPE MANUFACTURING METHOD USING SAME

Title (de)
VORRICHTUNG ZUR HERSTELLUNG VON GEPRÄGTEN ROHREN ZUM EINFACHEN VERSCHWEISSEN DER BEIDEN SEITEN EINES GEPRÄGTEN METALLBLECHS UND VERFAHREN ZUR HERSTELLUNG EINES GEPRÄGTEN ROHRES DAMIT

Title (fr)
APPAREIL DE FABRICATION DE TUYAU GAUFRÉ POUR SOUDER FACILEMENT LES DEUX CÔTÉS D'UNE FEUILLE MÉTALLIQUE GAUFRÉE ET PROCÉDÉ DE FABRICATION DE TUYAU GAUFRÉ FAISANT APPEL À CELUI-CI

Publication
EP 3760327 A4 20211201 (EN)

Application
EP 18907490 A 20181224

Priority
• KR 20180024243 A 20180228
• KR 2018016554 W 20181224

Abstract (en)
[origin: EP3760327A1] Disclosed are an embossed pipe manufacturing apparatus including an uncoiler configured to provide a flat metal sheet, a centering guide roller configured to guide the flat metal sheet supplied from the uncoiler to an embossing machine located at the rear thereof, the embossing machine being configured to emboss the flat metal sheet supplied via the centering guide roller in order to form an embossed metal sheet, and a pipe mill configured to curve and round the embossed metal sheet supplied through the embossing machine in order to manufacture an embossed pipe having a weld seam portion formed in the longitudinal direction, the pipe mill also being configured to weld the weld seam portion of the embossed pipe manufactured as described above in order to complete the embossed pipe, and an embossed pipe manufacturing method including a first step of supplying a flat metal sheet to the embossing machine from the uncoiler via the centering guide roller, a second step of embossing the flat metal sheet using an embossing press roller of the embossing machine to form an embossed metal sheet, and a third step of supplying the embossed metal sheet to the pipe mill to manufacture an embossed pipe having a weld seam portion formed in the longitudinal direction through curving and rounding processes and welding the weld seam portion of the embossed pipe to complete the embossed pipe.

IPC 8 full level
B21C 37/08 (2006.01); **B21C 37/15** (2006.01); **B21H 8/00** (2006.01); **B21H 8/02** (2006.01); **B30B 3/00** (2006.01); **B44B 5/00** (2006.01)

CPC (source: EP KR)
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Citation (search report)
• [XY] KR 101353025 B1 20140117 - LEE SUNG KU [KR]
• [X] KR 101353024 B1 20140117 - LEE SUNG KU [KR]
• [XY] DE 102006011626 A1 20060921 - VISTEON GLOBAL TECH INC [US]
• [XY] JP 2008188647 A 20080821 - CALSONIC KANSEI CORP
• [Y] JP H04157036 A 19920529 - MITSUBISHI SHINDO KK
• [Y] JP S60196241 A 19851004 - NIPPON STEEL METAL PROD
• [Y] JP 2000346580 A 20001215 - MITSUBISHI SHINDO KK
• See references of WO 2019168259A1

Designated contracting state (EPC)
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