

Title (en)
STEEL PIPE HAVING HIGH FORMABILITY AND METHOD FOR PRODUCTION THEREOF

Title (de)
LEICHT VERFORMBARES STAHLROHR UND VERFAHREN ZUR HERSTELLUNG.

Title (fr)
TUYAU EN ACIER A HAUTE FORMABILITE, ET PROCEDE DE FABRICATION

Publication
EP 1437422 A4 20060823 (EN)

Application
EP 01938656 A 20010614

Priority
JP 0105053 W 20010614

Abstract (en)
[origin: EP1437422A1] The steel tube has 'r' values of 1.2 or more along longitudinal direction and 1.6 or more in whole area of circumference including seam zone. The tube is formed by subjecting a hoop to electric welding at Ac1 temperature and to reduction rolling at 30% reduction ratio in temperature range of 600[deg]C to Ac3.

IPC 1-7
C22C 38/00; **C21D 8/10**; **B21B 17/14**; **B21C 37/08**

IPC 8 full level
B21B 17/14 (2006.01); **B21C 37/06** (2006.01); **B21C 37/08** (2006.01); **C21D 8/10** (2006.01); **C21D 9/08** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01)

CPC (source: EP)
B21C 37/06 (2013.01); **B21C 37/08** (2013.01); **C21D 8/10** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **B21B 17/14** (2013.01); **C21D 9/08** (2013.01)

Citation (search report)

- [Y] DE 4318931 C1 19941201 - MANNESMANN AG [DE]
- [Y] US 4414042 A 19831108 - GROSS HEINZ [DE], et al
- See references of WO 02103069A1

Citation (examination)

- JP 2002275533 A 20020925 - NIPPON STEEL CORP
- JP H04143015 A 19920518 - SUMITOMO METAL IND

Cited by
EP1816225A4; EP2868763A4; EP3085800A4; US7942984B2; US10738366B2

Designated contracting state (EPC)
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EP 1437422 A1 20040714; **EP 1437422 A4 20060823**; BR 0110441 A 20030701; BR 0110441 B1 20130618; CA 2403830 A1 20021214; CA 2403830 C 20090630; CN 1234896 C 20060104; CN 1426489 A 20030625; WO 02103069 A1 20021227

DOCDB simple family (application)
EP 01938656 A 20010614; BR 0110441 A 20010614; CA 2403830 A 20010614; CN 01808620 A 20010614; JP 0105053 W 20010614