

Title (en)  
HIGH-STRENGTH STEEL PIPE FOR LINE PIPE HAVING EXCELLENT HYDROGEN-INDUCED CRACKING RESISTANCE, HIGH-STRENGTH STEEL PIPE FOR LINE PIPE USING SAME, AND METHOD FOR MANUFACTURING SAME

Title (de)  
HOCHFESTES STAHLROHR FÜR LEITUNGSROHR MIT HERVORRAGENDER BESTÄNDIGKEIT GEGEN WASSERSTOFFINDUZIERTER  
RISSBILDUNG, HOCHFESTES STAHLROHR FÜR EIN LEITUNGSROHR DAMIT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
TUYAU D'ACIER À HAUTE RÉSISTANCE POUR TUYAU DE CANALISATION AYANT UNE EXCELLENTE RÉSISTANCE À LA FISSURATION  
INDUITE PAR HYDROGÈNE, TUYAU D'ACIER À HAUTE RÉSISTANCE POUR TUYAU DE CANALISATION L'UTILISANT ET SON PROCÉDÉ DE  
FABRICATION

Publication  
**EP 2832879 A4 20160113 (EN)**

Application  
**EP 13768001 A 20130329**

Priority  
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Abstract (en)  
[origin: EP2832879A1] Steel pipe for high strength line pipe use excellent in hydrogen induced crack resistance which can prevent cracking at the surface layer of steel pipe even if the ratio of thickness and outside diameter is 0.035 or more, characterized in that it has a predetermined chemical composition, has a maximum hardness of a surface layer region from the topmost surface of two front and back plate surfaces down to depth of 5 mm of 300Hv or less, and has a total fraction of polygonal ferrite and deformed ferrite with an aspect ratio of 3 or more at the surface layer region from the topmost surface of the two front and back plate surfaces down to depth of 5 mm of 0.1 to 20%.

IPC 8 full level  
**C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/12** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• [XYI] WO 2010093057 A1 20100819 - NIPPON STEEL CORP [JP], et al & JP 2010209460 A 20100924 - NIPPON STEEL CORP  
• [Y] WO 2010052928 A1 20100514 - NIPPON STEEL CORP [JP], et al  
• See references of WO 2013147197A1

Cited by  
EP3561106A4; EP3159418A1; US2022042131A1; EP3686304A4; US11548041B2; EP3816311A4; US11548042B2

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