Title (en)

USE OF A STEEL IN ATMOSPHERES CONTAINING HYDROGEN SULFIDE

Publication

EP 0160616 A3 19861230 (DE)

Application

EP 85730016 A 19850201

Priority

DE 3415590 A 19840424

Abstract (en)

[origin: US4631095A] A ferritic perlite steel is used for pipes and tubing to be highly resistant against stress corrosion cracking when exposed to H2S, and having following alloying range, all percentages by weight: from 0.3 to 0.45 C, from 1.4 to 1.8 Mn, from 0.2 to 0.5 Si, from 0.2 to 0.5 Cr, from 0.04 to 0.1 V, up to 0.06 Nb, </=0.003 S, the remainder being iron whereby the combined Niobium and Vandium content must obey the rule that the sum of the V content plus twice the Nb content must not be not less than 0.1%; tubing is made by hot working followed by cooling in air from the final temperature attained during hot working, so that a texture and grain size in accordance with ASTM finer than 8 obtains; the tubing has strength value of 552 N/mm2</=0.2% of rupture elongation limit </=655 N/mm2 and a tensile strength exceeding 655 N/mm2.

IPC 1-7

C21D 8/10; C22C 38/04

IPC 8 full level

C22C 38/00 (2006.01); **C21D 8/10** (2006.01); **C22C 38/04** (2006.01)

CPC (source: EP US)

C21D 8/10 (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE FR GB IT

DOCDB simple family (publication)

EP 0160616 A2 19851106; **EP 0160616 A3 19861230**; **EP 0160616 B1 19881019**; AT E38059 T1 19881115; BR 8501925 A 19851224; CA 1239332 A 19880719; DE 3415590 A1 19851031; DE 3415590 C2 19871112; JP S60234952 A 19851121; US 4631095 A 19861223

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EP 85730016 A 19850201; AT 85730016 T 19850201; BR 8501925 A 19850423; CA 479760 A 19850423; DE 3415590 A 19840424; JP 8436985 A 19850419; US 72679985 A 19850424