

Title (en)
SEAMLESS STEEL PIPE TO BE USED AS A STEEL CATENARY RISER IN THE TOUCHDOWN ZONE

Title (de)
NAHTLOSES STAHLROHR ZUR VERWENDUNG ALS AUFGEHÄNGTE STEIGLEITUNG AUS STAHL IM AUFSETZBEREICH

Title (fr)
CONDUITE EN ACIER SANS SOUDURE UTILISÉE COMME ÉLÉVATEUR CATÉNAIRE D'ACIER DANS LA ZONE DE CONTACT

Publication
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Application
EP 08741588 A 20080314

Priority
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• US 91806507 P 20070315
• US 7387908 A 20080311

Abstract (en)
The present invention describes an upset SCR of novel low carbon chemical composition and microstructure as well as method of manufacturing the same, which achieves higher improvement in the fatigue life as it is integral with the riser pipe section at the Touch Down Zone. The low carbon upset SCR achieves its desired properties by the thermal treatment which it is subjected to. The novel low carbon chemical composition and microstructure comprises in weight per cent, carbon 0.04-0.10, manganese 0.40-0.70, silicon 0.15-0.35, chromium 0.40-0.70, molybdenum 0.40- 0.70, nickel 0.10-0.40, nitrogen 0.008 max, aluminum 0.010-0.045, sulfur 0.005 max, phosphorus 0.020 max, titanium 0.003-0.020, niobium 0.020-0.035, vanadium no more than 0.10, copper 0.20 max, tin 0.020 max, and carbon equivalent 0.43 max and PCM no more than 0.23 and having a yield strength of at least of 65000 psi, the ultimate tensile strength of at least 77000 psi and YS/UTS ratio below 0.89 in material representing the pipe body, the transition zone and the upset end.

IPC 8 full level
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Citation (search report)
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