

Title (en)

APPARATUS AND METHOD FOR WELDING DUPLEX STAINLESS STEEL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHWEISSEN VON DUPLEX-ROSTFREIEM STAHL

Title (fr)

APPAREIL ET PROCEDE PERMETTANT DE SOUDER DE L'ACIER INOXYDABLE DUPLEX

Publication

EP 1220731 A4 20080227 (EN)

Application

EP 00943125 A 20000623

Priority

- US 0017414 W 20000623
- US 15073899 P 19990825

Abstract (en)

[origin: WO0114094A1] Arc welding of duplex stainless steel tubing is accomplished using a non-pulsed electric arc and a high refractory weld flux. Weld beads, uniform throughout their lengths, and having a duplex phase structure and desirable profile are produced by single pass orbital welding, even if the wall thickness of the duplex tubing exceeds 2 mm.

IPC 8 full level

B23K 9/00 (2006.01); **B23K 9/23** (2006.01); **B23K 9/16** (2006.01); **B23K 35/36** (2006.01); **B23K 35/362** (2006.01)

CPC (source: EP)

B23K 9/0026 (2013.01); **B23K 9/23** (2013.01); **B23K 35/3053** (2013.01); **B23K 35/362** (2013.01); **B23K 35/383** (2013.01); **B23K 2101/06** (2018.07); **B23K 2103/05** (2018.07)

Citation (search report)

- [XY] JP H01233089 A 19890918 - NIPPON STEEL CORP
- [DY] US 5804792 A 19980908 - PASKELL TROY D [US]
- [PX] EP 1008417 A1 20000614 - KOBE STEEL LTD [JP]
- See references of WO 0114094A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0114094 A1 20010301; AU 5764100 A 20010319; AU 778041 B2 20041111; CA 2382461 A1 20010301; CA 2382461 C 20060822; CN 1376099 A 20021023; EP 1220731 A1 20020710; EP 1220731 A4 20080227; JP 2003507193 A 20030225; NO 20020888 D0 20020222; NO 20020888 L 20020222; TW 506877 B 20021021

DOCDB simple family (application)

US 0017414 W 20000623; AU 5764100 A 20000623; CA 2382461 A 20000623; CN 00811945 A 20000623; EP 00943125 A 20000623; JP 2001518218 A 20000623; NO 20020888 A 20020222; TW 89117231 A 20000825