

Title (en)

METHOD FOR MANUFACTURING STAINLESS STEEL PRODUCT BY NITROGEN ABSORPTION TREATMENT AND STAINLESS STEEL PRODUCT PRODUCED BY THE METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ROSTFREI-STAHLPRODUKTEN MITTELS STICKSTOFFABSORPTIONSBEHANDLUNG UND DURCH DIESES VERFAHREN HERGESTELLTE ROSTFREI-STAHLPRODUKTE

Title (fr)

PROCEDE DE FABRICATION D'UN PRODUIT EN ACIER INOXYDABLE PAR TRAITEMENT PAR ABSORPTION D'AZOTE ET PRODUIT EN ACIER INOXYDABLE OBTENU SELON LEDIT PROCEDE

Publication

**EP 1533395 A4 20080611 (EN)**

Application

**EP 03784626 A 20030808**

Priority

- JP 0310164 W 20030808
- JP 2002231557 A 20020808

Abstract (en)

[origin: EP1533395A1] A method for manufacturing a stainless steel product, which comprises contacting a bulk product of a ferritic stainless steel having been formed into a desired shape through melting with an inert gas containing nitrogen at 800 DEG C or higher, to thereby convert the structure of the whole or a part of the bulk product to austenite and produce an austenitic product or a product having a two-phase structure comprised of ferrite and austenite, respectively. The method allows the reduction of the manufacturing cost of a formed austenitic stainless steel product to a satisfactorily low level, which results in the manufacture of a stainless steel product having satisfactory characteristics in both of strength and corrosion resistance at a satisfactorily low cost. <IMAGE>

IPC 8 full level

**C23C 8/26** (2006.01); **C21D 1/06** (2006.01); **C21D 1/74** (2006.01); **C21D 1/76** (2006.01); **C21D 6/00** (2006.01); **C22C 38/00** (2006.01)

CPC (source: EP US)

**C21D 1/74** (2013.01 - EP US); **C21D 1/76** (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 8/0257** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C23C 8/26** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US)

Citation (search report)

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- [X] US 2940880 A 19600614 - STANLEY JAMES K, et al
- [A] WO 9905340 A1 19990204 - RHP BEARINGS LTD [GB], et al
- See references of WO 2004015160A1

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DOCDB simple family (application)

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