

Title (en)  
Duplex Cast Steel

Title (de)  
Duplexstahl

Title (fr)  
Acier moulé en duplex

Publication  
**EP 2093303 A1 20090826 (EN)**

Application  
**EP 08163637 A 20080904**

Priority  
EP 08163637 A 20080904

Abstract (en)  
The present invention relates to a duplex cast steel having a microstructure comprising 30-50 vol% austenite and 50-70 vol% ferrite, wherein said steel has a composition comprising 0.50-3.40 wt% Ni, 18-27 wt% Cr and up to 0.14 wt% N. By the invention, a duplex steel which is possible to cast and which has low amount of Nickel compared to currently used standard steels is provided. The inventive steel can be used for chemical process equipment, such as process components in the pulp and paper industry, such as pump and agitator components.

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/40** (2006.01); **C22C 38/44** (2006.01)

CPC (source: EP)  
**C22C 38/58** (2013.01); **C21D 2211/001** (2013.01); **C21D 2211/005** (2013.01)

Citation (applicant)  
WO 0227056 A1 20020404 - AVESTAPOLARIT AKTIEBOLAG PUBL [SE], et al

Citation (search report)  
• [X] EP 1061151 A1 20001220 - KUBOTA KK [JP]  
• [XA] EP 0327053 A1 19890809 - ARMCO ADVANCED MATERIALS [US]  
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• [X] JP H02305940 A 19901219 - NIPPON STEEL CORP  
• [A] EP 0314649 A2 19890503 - SANDVIK AB [SE]  
• [A] WO 2006071027 A1 20060706 - POSCO [KR], et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2093303 A1 20090826**

DOCDB simple family (application)  
**EP 08163637 A 20080904**