

Title (en)  
AN OBJECT COMPRISING A DUPLEX STAINLESS STEEL AND THE USE THEREOF

Title (de)  
OBJEKT MIT DUPLEXEDELSTAHL UND VERWENDUNG DAVON

Title (fr)  
OBJET COMPRENANT UN ACIER INOXYDABLE DUPLEX ET UTILISATION CORRESPONDANTE

Publication  
**EP 3559295 A1 20191030 (EN)**

Application  
**EP 17818553 A 20171218**

Priority

- EP 16205963 A 20161221
- EP 2017083408 W 20171218

Abstract (en)  
[origin: WO2018114865A1] The present disclosure relates to an object comprising a duplex stainless steel, in particular the object is suitable for use in spring applications. The duplex stainless steel has the following composition, in weight%: - C less than or equal to 0.040; - Si less than or equal to 0.60; - Mn 0.80 - 10.0; - Cr 21.0-28.0; - Ni 4.0-9.0; - Mo 0.9 - 4.5; - N 0.10-0.45; - Cu less than or equal to 0.50; - V less than or equal to 0.10; - P less than or equal to 0.010; - s less than or equal to 0.006; balance Fe and unavoidable impurities. The present disclosure also relates to a method of producing the object comprising said duplex stainless steel.

IPC 8 full level  
**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 8/06** (2006.01); **C21D 9/02** (2006.01); **C21D 9/46** (2006.01); **C21D 9/52** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)  
**C21D 6/004** (2013.01 - EP US); **C21D 6/005** (2013.01 - US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0263** (2013.01 - US); **C21D 8/0268** (2013.01 - EP); **C21D 8/065** (2013.01 - EP US); **C21D 9/02** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C21D 9/52** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C22C 2204/00** (2013.01 - US)

Citation (search report)  
See references of WO 2018114865A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2018114865 A1 20180628**; CN 110088323 A 20190802; CN 110088323 B 20220322; EP 3559295 A1 20191030; EP 3559295 B1 20210428; ES 2870648 T3 20211027; US 2019323110 A1 20191024

DOCDB simple family (application)  
**EP 2017083408 W 20171218**; CN 201780079046 A 20171218; EP 17818553 A 20171218; ES 17818553 T 20171218; US 201716471056 A 20171218