

Title (en)  
HIGH STRENGTH AIR HARDENABLE MULTI PHASE STEEL WITH EXCELLENT WORKABILITY AND SHEET MANUFACTURING PROCESS THEREOF

Title (de)  
HÖCHSTFESTER LUFTHÄRTENDER MEHRPHASENSTAHL MIT HERVORRAGENDEN VERARBEITUNGSEIGENSCHAFTEN UND VERFAHREN ZUR HERSTELLUNG EINES BANDES AUS DIESEM STAHL

Title (fr)  
ACIER MULTIPHASES AUTOTREMPANT EN PROFONDEUR À HAUTE RÉSISTANCE MÉCANIQUE AVEC EXCELLENT APTITUDE AU FACONNAGE ET PROCÉDÉ DE FABRICATION D'UNE BANDE DE CET ACIER

Publication  
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Application  
**EP 15821018 A 20151106**

Priority  
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• DE 2015100474 W 20151106

Abstract (en)  
[origin: WO2016078644A1] The invention relates to a high-strength air-hardenable multiphase steel which has excellent processing properties and consists of a composition defined in claim 1 and in which, in order to allow for a process window that is as large as possible for the continuous annealing of hot and cold strips from said steel, the combined content of Mn+Si+Cr is adjusted as follows in accordance with the strip thickness obtained: up to 1.00 mm: sum of Mn+Si+Cr  $\geq$  2.800 and  $\leq$  3.000 wt%; more than 1.00 and up to 2.00 mm: sum of Mn+Si+Cr  $\geq$  2.850 and  $\leq$  3.100 wt%; more than 2.00 mm: sum of Mn+Si+Cr  $\geq$  2.900 and  $\leq$  3.200 wt%.

IPC 8 full level  
**C21D 1/84** (2006.01); **C21D 1/26** (2006.01); **C21D 1/28** (2006.01); **C21D 1/74** (2006.01); **C21D 1/76** (2006.01); **C21D 8/02** (2006.01); **C21D 8/04** (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (2006.01); **C21D 9/56** (2006.01); **C21D 9/58** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/22** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C23C 2/00** (2006.01)

CPC (source: CN EP KR RU US)  
**C21D 1/84** (2013.01 - EP); **C21D 6/002** (2013.01 - US); **C21D 6/005** (2013.01 - US); **C21D 6/007** (2013.01 - EP); **C21D 6/008** (2013.01 - US); **C21D 8/02** (2013.01 - RU); **C21D 8/0205** (2013.01 - US); **C21D 8/0247** (2013.01 - CN EP KR); **C21D 8/0263** (2013.01 - CN KR US); **C21D 8/0273** (2013.01 - CN EP KR); **C21D 8/0278** (2013.01 - US); **C21D 9/46** (2013.01 - CN KR RU); **C21D 9/48** (2013.01 - EP); **C21D 9/52** (2013.01 - US); **C21D 9/561** (2013.01 - EP); **C21D 9/562** (2013.01 - EP); **C21D 9/58** (2013.01 - EP); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - CN EP KR); **C22C 38/06** (2013.01 - EP US); **C22C 38/22** (2013.01 - CN EP KR US); **C22C 38/24** (2013.01 - US); **C22C 38/26** (2013.01 - CN EP KR US); **C22C 38/28** (2013.01 - CN EP KR US); **C22C 38/32** (2013.01 - CN EP KR US); **C22C 38/38** (2013.01 - CN EP KR RU US); **C23C 2/0038** (2022.08 - CN EP KR RU US); **C23C 2/0224** (2022.08 - CN EP KR RU US); **C23C 2/024** (2022.08 - CN EP KR RU US); **C23C 2/29** (2022.08 - CN EP KR RU US); **C23C 2/40** (2013.01 - US); **C21D 1/26** (2013.01 - EP); **C21D 1/28** (2013.01 - EP); **C21D 1/74** (2013.01 - EP); **C21D 1/76** (2013.01 - EP); **C21D 6/002** (2013.01 - EP); **C21D 6/005** (2013.01 - EP); **C21D 8/0447** (2013.01 - EP); **C21D 8/0473** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C21D 2211/002** (2013.01 - US); **C21D 2211/005** (2013.01 - CN EP KR US); **C21D 2211/008** (2013.01 - CN EP US); **C21D 2241/00** (2013.01 - US)

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DE 102012013113 A1 20131224 - SALZGITTER FLACHSTAHL GMBH [DE]

Cited by  
EP3950994A4; EP3825432A4; EP3825433A4; EP3950994B1; EP3825433B1

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DOCDB simple family (application)  
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