

Title (en)

Manufacturing process of a bainitic steel article

Title (de)

Verfahren zur Herstellung von einem Teil aus bainitischem Stahl

Title (fr)

Procédé de fabrication d'une pièce en acier bainitique

Publication

EP 1426452 B1 20090902 (FR)

Application

EP 03292950 A 20031127

Priority

FR 0215226 A 20021203

Abstract (en)

[origin: EP1426452A1] Fabrication of a steel component consists of: (a) production and casting of a steel with a given composition; (b) effecting at least one hot deformation of the cast steel to produce a component blank at a temperature of 1100 to 1300 degrees C; (c) effecting a controlled cooling of the blank in still or pulsed air; (d) effecting a precipitation tempering, preceding or following the machining of the component from the blank. An Independent claim is also included for a steel component obtained by this method.

IPC 8 full level

B21J 5/00 (2006.01); **C21D 8/00** (2006.01); **C21D 1/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/16** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/58** (2006.01); **C22C 38/60** (2006.01); **C21D 1/18** (2006.01)

CPC (source: EP US)

C21D 1/02 (2013.01 - EP US); **C21D 8/005** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **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 1/18** (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP US)

Cited by

CN105710264A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1426452 A1 20040609; **EP 1426452 B1 20090902**; AT E441730 T1 20090915; CA 2452647 A1 20040603; CA 2452647 C 20090714; CN 1288270 C 20061206; CN 1519386 A 20040811; DE 60329064 D1 20091015; ES 2331949 T3 20100121; FR 2847908 A1 20040604; FR 2847908 B1 20061020; JP 2004190138 A 20040708; JP 4316361 B2 20090819; MX PA03010998 A 20040910; PL 206237 B1 20100730; PL 363854 A1 20040614; US 2004108020 A1 20040610; US 7354487 B2 20080408

DOCDB simple family (application)

EP 03292950 A 20031127; AT 03292950 T 20031127; CA 2452647 A 20031201; CN 200310124774 A 20031202; DE 60329064 T 20031127; ES 03292950 T 20031127; FR 0215226 A 20021203; JP 2003403104 A 20031202; MX PA03010998 A 20031128; PL 36385403 A 20031203; US 72464103 A 20031202