

Title (en)

Hot-working steel

Title (de)

Warmarbeitsstahl

Title (fr)

Acier pour usinage à chaud

Publication

EP 2824212 B1 20151209 (DE)

Application

EP 13176388 A 20130712

Priority

EP 13176388 A 20130712

Abstract (en)

[origin: WO2015004137A1] The present invention relates to a hot work steel having the following composition (in wt%): C: 0.38 - 0.45%, Si: up to 0.8%, Mn: up to 0.5%, Cr: 4.0 - 6.0%, Co: 0.3 - 0.8%, Ni: 0.8 - 2%, Mo: 2.3 - 2.8%, Ta: 0.1 - 1.0%, Al: up to 0.025%, Ti: up to 0.03%, V: 0.15 - 0.3%, N: 0.1 - 0.5%, the rest Fe and unavoidable process impurities. The hot work steel according to the invention provides an optimized combination of strength and toughness when used at high temperatures.

IPC 8 full level

C22C 38/22 (2006.01)

CPC (source: EP)

C22C 38/22 (2013.01)

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

DOCDB simple family (publication)

EP 2824212 A1 20150114; EP 2824212 B1 20151209; WO 2015004137 A1 20150115

DOCDB simple family (application)

EP 13176388 A 20130712; EP 2014064616 W 20140708