

Title (en)

Long-life heat-resisting low alloy steel welded component and method of manufacturing the same

Title (de)

Langlebiges, niedrig legiertes, hitzbeständiges geschweisstes Stahlwerkstück und Verfahren zu dessen Herstellung

Title (fr)

Pièce d'acier soudé, faiblement allié et résistant aux températures élevées ayant une vie élevée

Publication

EP 1418245 A2 20040512 (EN)

Application

EP 03025611 A 20031106

Priority

- JP 2002322969 A 20021106
- JP 2003357568 A 20031017

Abstract (en)

The method of manufacturing a long-life heat-resisting low alloy steel welded component, with which creep damages do not easily occur in the heat affected zone. The manufacturing method includes the steps of subjecting a base metal containing, at % by weight, C: 0.15% or less, Si: 0.5% or less, Mn: 0.3 to 0.8%, Cr: 1.9 to 2.6%, Mo: 0.87 to 1.20%, and a balance of iron and unavoidable impurities, to a hot working (S3), to a heat treatment (S5), and then to a welding (S8). In this method the base metal is normalized (S2) once or more times before the welding (S8) in addition to the hot working (S3). <IMAGE>

IPC 1-7

C21D 8/02; **C21D 1/28**; **C22C 38/22**

IPC 8 full level

B23K 9/23 (2006.01); **C21D 1/28** (2006.01); **C21D 8/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/22** (2006.01); **C22C 38/32** (2006.01); **B23K 103/04** (2006.01)

CPC (source: EP US)

C21D 1/28 (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US)

Cited by

CN113275712A; US9352369B2; WO2013119980A1; EP2764127B1

Designated contracting state (EPC)

DE DK FI FR GB

DOCDB simple family (publication)

EP 1418245 A2 20040512; **EP 1418245 A3 20041006**; **EP 1418245 A9 20040811**; CA 2448091 A1 20040506; JP 2005139470 A 20050602; JP 4254483 B2 20090415; US 2004089701 A1 20040513

DOCDB simple family (application)

EP 03025611 A 20031106; CA 2448091 A 20031104; JP 2003368915 A 20031029; US 69982503 A 20031104