

Title (en)

Wear-resistant steel for intermediate and room temperature service.

Title (de)

Verschleissfester Stahl zur Verwendung bei mittelhohen Temperaturen und bei Raumtemperatur.

Title (fr)

Acier résistant à l'usure pour utilisation à des températures intermédiaires et à la température ambiante.

Publication

**EP 0445519 A1 19910911 (EN)**

Application

**EP 91101082 A 19910128**

Priority

JP 3743190 A 19900220

Abstract (en)

A wear-resistant steel for the intermediate and room temperature service consisting essentially of: carbon : from 0.08 to 0.40 wt.%, silicon : from 0.8 to 2.5 wt.%, manganese : from 0.1 to 2.0 wt.%, and the balance being iron and incidental impurities. The above-mentioned wear-resistant steel has a Brinell hardness at a room-temperature of at least 250, a Brinell hardness at a temperature of 300 DEG C of at least 90% of its room-temperature Brinell hardness and a Brinell hardness at a temperature of 400 DEG C of at least 70% of its room-temperature Brinell hardness.

IPC 1-7

**C22C 38/02**; **C22C 38/04**

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01)

CPC (source: EP)

**C22C 38/02** (2013.01); **C22C 38/04** (2013.01)

Citation (search report)

- [X] GB 1202513 A 19700819 - STOODY CO [US]
- [Y] SU 266215 A1 19700317
- [Y] CH 317544 A 19561130 - MONTEFORNO ACCIAJERIE E LAMINA [CH]
- [A] US 2863763 A 19581209 - ROSENBERG SAMUEL J, et al
- [A] SU 342941 A1 19720622

Cited by

AU669776B2

Designated contracting state (EPC)

DE GB SE

DOCDB simple family (publication)

**EP 0445519 A1 19910911**; AU 7107891 A 19910822; CA 2034874 A1 19910821; FI 910727 A0 19910214; FI 910727 A 19910821; JP H03243743 A 19911030

DOCDB simple family (application)

**EP 91101082 A 19910128**; AU 7107891 A 19910215; CA 2034874 A 19910124; FI 910727 A 19910214; JP 3743190 A 19900220