

Title (en)

RAIL AND METHOD FOR MANUFACTURING SAME

Title (de)

SCHIENE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

RAIL ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 4023777 A1 20220706 (EN)**

Application

**EP 20874591 A 20200727**

Priority

- JP 2019187316 A 20191011
- JP 2020028616 W 20200727

Abstract (en)

A rail 1 includes a foot 2, a web 3, and a head 4. The web 3 has a chemical composition containing C: 0.70 to 1.20 mass%, Si: 0.20 to 1.20 mass %, Mn: 0.20 to 1.50 mass%, P: 0.035 mass% or less, and Cr: 0.20 to 2.50 mass%, with the balance being Fe and incidental impurities. The area fraction of pearlite in the web 3 is 95% or more, and the average size of pearlite blocks is 60 µm or less.

IPC 8 full level

**C21D 8/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/18** (2006.01); **C22C 38/54** (2006.01)

CPC (source: CN EP US)

**B21B 1/085** (2013.01 - US); **C21D 1/02** (2013.01 - EP); **C21D 1/84** (2013.01 - US); **C21D 7/13** (2013.01 - US); **C21D 9/04** (2013.01 - CN EP US);  
**C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - CN EP US); **C22C 38/18** (2013.01 - CN);  
**C22C 38/20** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US);  
**C22C 38/32** (2013.01 - EP US); **C22C 38/38** (2013.01 - US); **C22C 38/40** (2013.01 - EP US); **E01B 5/02** (2013.01 - CN);  
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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 4023777 A1 20220706; EP 4023777 A4 20230301**; AU 2020364505 A1 20220428; AU 2020364505 B2 20230803; CA 3157401 A1 20210415;  
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DOCDB simple family (application)

**EP 20874591 A 20200727**; AU 2020364505 A 20200727; CA 3157401 A 20200727; CN 202080070379 A 20200727;  
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