

Title (en)

TRACK PART MADE OF A HYPEREUTECTOID STEEL

Title (de)

GLEISTEIL AUS HYPEREUTEKTOIDEM STAHL

Title (fr)

PARTIE DE VOIE EN ACIER HYPEREUTECTOÏDE

Publication

**EP 3821040 A1 20210519 (EN)**

Application

**EP 19752261 A 20190703**

Priority

- AT 2012018 A 20180710
- IB 2019055660 W 20190703

Abstract (en)

[origin: CA3048723A1] In a track part, in particular rail for railway vehicles, made of a hypereutectoid steel, comprising a rail foot, a rail web and a rail head portion, a hypereutectoid steel with the following directional analysis is used: 0.98 - 1.17 wt.-% of C 0.90 - 1.35% wt.-% of Mn 0.70 - 1.10% wt.-% of Si 0.15 - 0.70 wt.-% of Cr and wherein the steel, at least in the head portion of the rail, has a pearlitic structure that is substantially free of secondary cementite networks.

IPC 8 full level

**C21D 1/18** (2006.01); **C21D 1/60** (2006.01); **C21D 1/63** (2006.01); **C21D 9/04** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01);  
**C22C 38/18** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01)

CPC (source: AT EP US)

**B21B 1/085** (2013.01 - US); **C21D 1/18** (2013.01 - EP); **C21D 1/60** (2013.01 - EP); **C21D 1/63** (2013.01 - EP); **C21D 8/005** (2013.01 - AT);  
**C21D 8/0226** (2013.01 - EP); **C21D 8/0263** (2013.01 - EP); **C21D 9/04** (2013.01 - AT EP US); **C22C 38/02** (2013.01 - AT EP US);  
**C22C 38/04** (2013.01 - AT EP US); **C22C 38/06** (2013.01 - US); **C22C 38/18** (2013.01 - EP); **C22C 38/24** (2013.01 - EP);  
**C22C 38/26** (2013.01 - EP); **C22C 38/46** (2013.01 - US); **C22C 38/50** (2013.01 - US); **C21D 2211/003** (2013.01 - EP);  
**C21D 2211/009** (2013.01 - EP); **C22C 38/06** (2013.01 - AT); **C22C 38/24** (2013.01 - AT); **C22C 38/26** (2013.01 - AT); **C22C 38/28** (2013.01 - AT)

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)

**US 2020017943 A1 20200116**; AR 115726 A1 20210217; AT 521405 A1 20200115; AT 521405 B1 20210915; AU 2019204857 A1 20200130;  
BR 102019014230 A2 20200227; BR 102019014230 B1 20231031; CA 3048723 A1 20200110; CA 3048723 C 20211109;  
EP 3821040 A1 20210519; EP 3821040 B1 20230830; ES 2834057 T1 20210616; ES 2834057 T3 20240326; MA 53132 A 20210519;  
PL 3821040 T3 20240212; UA 127116 C2 20230503; WO 2020012297 A1 20200116; ZA 202006996 B 20211027

DOCDB simple family (application)

**US 201916506234 A 20190709**; AR P190101938 A 20190710; AT 2012018 A 20180710; AU 2019204857 A 20190705;  
BR 102019014230 A 20190709; CA 3048723 A 20190705; EP 19752261 A 20190703; ES 19752261 T 20190703; IB 2019055660 W 20190703;  
MA 53132 A 20190703; PL 19752261 T 20190703; UA A202100541 A 20190703; ZA 202006996 A 20201110