

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 B1 20230830 (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)
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Designated extension state (EPC)
BA ME

Designated validation state (EPC)
MA TN

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

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