

Title (en)

RAIL ARRANGEMENT

Title (de)

SCHIENENANORDNUNG

Title (fr)

AGENCEMENT DE RAIL

Publication

EP 0990071 A1 20000405 (DE)

Application

EP 98934818 A 19980528

Priority

- DE 9801460 W 19980528
- DE 19725638 A 19970618
- DE 19744147 A 19971007

Abstract (en)

[origin: DE19823812A1] The mounting for the rails, of a permanent way on concrete sleepers, has an elastic intermediate plate (3) between the rail foot and the hard sleeper (6) combined with an elastic intermediate layer (1) between it and the rail foot. The intermediate layer (1) is separated from the intermediate plate (3) by a metal base plate (2) forming the rail mounting. The intermediate plate (3) is a one-piece vulcanised rubber mixture with three sandwich zones. The rubber material is a natural rubber (NR), an epoxidised natural rubber (ENR), isoprene rubber (IR), butadiene rubber (BR), acrylate rubber (ACM), styrene butadiene rubber (SBR) or combinations and especially NR/SBR or NR/BR. The layer zones are structured with active projections and inactive recesses, where the inactive recesses are deeper in the centre zone than in the flanking outer zones.

IPC 1-7

E01B 9/68

IPC 8 full level

E01B 9/62 (2006.01); **E01B 9/68** (2006.01)

CPC (source: EP KR US)

E01B 9/62 (2013.01 - EP US); **E01B 9/68** (2013.01 - EP KR US); **E01B 9/681** (2013.01 - EP US); **E01B 9/683** (2013.01 - EP US);
E01B 9/686 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL PT SE

DOCDB simple family (publication)

US 6471139 B1 20021029; AT E239138 T1 20030515; AU 739329 B2 20011011; AU 8431998 A 19990104; CN 1107767 C 20030507;
CN 1260850 A 20000719; DE 19823812 A1 19981224; DE 59808177 D1 20030605; EP 0990071 A1 20000405; EP 0990071 B1 20030502;
ES 2197484 T3 20040101; HU P0004092 A2 20010428; HU P0004092 A3 20010528; JP 2002504203 A 20020205;
KR 20010013239 A 20010226; WO 9858125 A1 19981223

DOCDB simple family (application)

US 44584099 A 19991214; AT 98934818 T 19980528; AU 8431998 A 19980528; CN 98806359 A 19980528; DE 19823812 A 19980528;
DE 59808177 T 19980528; DE 9801460 W 19980528; EP 98934818 A 19980528; ES 98934818 T 19980528; HU P0004092 A 19980528;
JP 50353399 A 19980528; KR 19997011230 A 19980528