

Title (en)
PRESTRESSED CONCRETE RAILWAY SLEEPER

Publication
EP 0361227 A3 19900620 (DE)

Application
EP 89117094 A 19890915

Priority
DE 3832504 A 19880924

Abstract (en)
[origin: EP0361227A2] In a prestressed concrete railway sleeper whose sleeper body (1) consists of two supporting bodies (2, 2') carrying the rail fastenings and a centre part (3) of smaller cross-section, the prestressing elements (4), such as, for example, steel bars, wires or strands, starting from a point where they are united in a vertical and/or horizontal plane in the sleeper centre, are run radially and rectilinearly to the sleeper ends (5, 5'), where they are anchored in uniform distribution over the cross-sectional areas of the sleeper ends. By the uniting of the prestressing elements (4) in the sleeper centre, the use of a sleeper body having a narrow, high centre web and wide sleeper ends also becomes possible for prestressed concrete sleepers, in which sleeper body only slight alternating bending moments arise in the centre part or a unidirectionally positive pattern of the bending moments can be permitted over the entire length of the sleeper. <IMAGE>

IPC 1-7
E01B 3/34

IPC 8 full level
E01B 3/34 (2006.01)

CPC (source: EP)
E01B 3/34 (2013.01)

Citation (search report)
• [X] DE 1247188 B 19670810 - EMCH & BERGER INGENIEURBUERO G
• [Y] GB 338864 A 19301118 - EUGENE FREYSSINET, et al

Cited by
US5135164A; CN103334350A; CN111231105A; US9238891B1; US9890503B2

Designated contracting state (EPC)
AT CH ES IT LI

DOCDB simple family (publication)
EP 0361227 A2 19900404; EP 0361227 A3 19900620; EP 0361227 B1 19921021; AT E81691 T1 19921115; DE 3832504 A1 19900405; DE 3832504 C2 19911212; ES 2036011 T3 19930501; MX 172187 B 19931207

DOCDB simple family (application)
EP 89117094 A 19890915; AT 89117094 T 19890915; DE 3832504 A 19880924; ES 89117094 T 19890915; MX 1763389 A 19890921