

Title (en)

BLOCK FOR RAILWAYS LIMITED IN HEIGHT, ESPECIALLY FOR BALLASTLESS RAILWAYS

Publication

**EP 0021873 B1 19830921 (FR)**

Application

**EP 80400692 A 19800520**

Priority

FR 7915391 A 19790615

Abstract (en)

[origin: US4381076A] The construction of steel-concrete railroad ties onto which rails are fixed is disclosed. The ties are composed of a metal saddle for fastening to the rail, comprising a tie-plate extending over a part of the upper surface of the tie and forming the zone for attachment and support of the rail. The tie-plate further extends into the tie through ribs sealed in the concrete of the tie and constitutes at least part of its reinforcement.

IPC 1-7

**E01B 3/40**

IPC 8 full level

**E01B 3/32** (2006.01); **E01B 3/40** (2006.01); **E01B 9/38** (2006.01); **E01B 1/00** (2006.01)

CPC (source: EP US)

**E01B 3/40** (2013.01 - EP US); **E01B 1/005** (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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**EP 80400692 A 19800520**; AT 80400692 T 19800520; BR 8003704 A 19800613; CA 353960 A 19800613; DE 3064898 T 19800520; FR 7915391 A 19790615; IN 696CA1980 A 19800613; JP 7916480 A 19800613; US 15934180 A 19800613; ZA 803341 A 19800604