

Title (en)
IMPROVED RAIL TIE

Title (de)
VERBESSERTE EISENBAHNSCHWELLE

Title (fr)
TRAVERSE DE RAIL PERFECTIONNE

Publication
EP 0701642 B1 19991215 (EN)

Application
EP 94917529 A 19940602

Priority
• CA 9400303 W 19940602
• GB 9311396 A 19930602
• US 13973693 A 19931022

Abstract (en)
[origin: WO9428245A1] A rail tie plate (410, 420, 440, 460, 478) comprises two elements each provided with a rail flange shoulder (414), a downward leg (421) and a lateral projection (422) whereby the tie plate can be installed on a plate member (21, 121, 221, 321) of a slotted steel tie (20, 120, 220, 320) by insertion of the projection (422) of each element into a respective slot and rotation of the element inwardly and downward. A tie plate (410, 420, 440, 450, 460, 478) having longitudinal shoulders (414) is provided with a downwardly facing abutment surface such as provided by an opening (424) laterally through each shoulder (414) on which a rail clip (430, 470, 482, 489) engages to bear on an upper side of the rail flange (416). Rail rollover is avoided by transferring rotational forces to the plate (410, 420, 440, 450, 460, 478) through the engagement of the clip (430, 470, 482, 489) on the shoulder (414) and resisting such rotational force at the connection between the tie plate (410, 420, 440, 450, 460, 478) and the tie (20, 120, 220, 320). A steel tie for incorporation in a rail track has a horizontal oblong rectangular plate member (21, 121, 221, 321) for connection transversely of the rail, and a web (23) or webs (123, 223, 323) extending vertically on the underside of the plate member (21, 121, 221, 321) and spaced inwardly from its longer sides. A ballast engaging plate member (33, 41, 133, 233, 333) may be connected on the tie on its underside and faces generally transversely of the rail or ends of the plate (21, 121, 221, 321) may be bent downwardly.

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IPC 8 full level
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