

Title (en)
RAILWAY TIE

Title (de)
EISENBAHNSCHWELLE

Title (fr)
TRAVERSE DE CHEMIN DE FER

Publication
EP 3173523 A1 20170531 (EN)

Application
EP 16190059 A 20160922

Priority
IT UB20155910 A 20151125

Abstract (en)
A concrete railway tie (1) comprising two opposite end platforms (10) whereon end portions of rails (R1, R2) are rested ; said railway tie (1) comprising longitudinal ducts (4a) made with pipes (4a) of plastic material and an identical pair of trapezium-shaped transverse grooves (11), with the lower base facing downwards; said ducts (4) being provided with an inlet (40) obtained in one of the ends (13) of the railway tie and an outlet (41) ending in one of the lateral edges (11 b) of the transverse grooves (11); said ducts (4) substantially having a horizontal rectilinear trajectory, except for the end portion provided with an upward trajectory.

IPC 8 full level
E01B 3/28 (2006.01); **B61L 1/18** (2006.01)

CPC (source: EP)
E01B 3/28 (2013.01)

Citation (applicant)
CN 204224931 U 20150325 - SHANDONG HIGH SPEED RAIL EQUIPMENT MATERIAL CO LTD

Citation (search report)
• [A] CN 204224931 U 20150325 - SHANDONG HIGH SPEED RAIL EQUIPMENT MATERIAL CO LTD
• [A] US 4265400 A 19810505 - JORDON JOHN V W
• [A] WO 2009147508 A2 20091210 - ANSALDO STS SPA [IT], et al

Cited by
IT201900014514A1; RU2700249C1; JP2020007741A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3173523 A1 20170531; EP 3173523 B1 20180117; ES 2666203 T3 20180503; IT UB20155910 A1 20170525

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EP 16190059 A 20160922; ES 16190059 T 20160922; IT UB20155910 A 20151125