

Title (en)

Method and device for machine removal of ground layers in railway tracks

Title (de)

Verfahren und Vorrichtung zum maschinellen Ausbau von Bodenschichten im Gleisbau

Title (fr)

Procédé et dispositif de démontage automatique de couches de sol dans la pose de voie

Publication

**EP 2020459 A1 20090204 (DE)**

Application

**EP 08011470 A 20080625**

Priority

DE 102007036791 A 20070803

Abstract (en)

The method involves detaching and removing a ground layer (6) mechanically below and/or adjacent to a track (1). The ground layer is initially separated from a substrate before mechanically detaching and removing of the ground layer by cutting (5) a base (3) parallel to the rail. The cutting is provided in even-shape, tub-shape, U-shape or in suitable profile form. The track is supported on sleepers (2) on the base. The base is cut by a cutting belt with a saw tooth or with a cutter head and by pressurizing the base with an air jet or water jet. An independent claim is also included for a device for mechanically removing of a ground layer in a railway track.

Abstract (de)

Ein Verfahren zum maschinellen Ausbau von Bodenschichten 6 im Gleisbau, bei dem die Bodenschicht 6 unterhalb und/oder neben dem Gleis 1 maschinell gelöst und abgetragen wird, sieht vor, daß vor dem maschinellen Lösen und Abtragen der Bodenschicht 6 diese zunächst durch einen zum Gleis parallelen Schnitt 5 vom darunter befindlichen Untergrund 7 getrennt wird. Dies führt zu einer besseren Aushubsohle und zu einer gesteigerten Ausbaugeschwindigkeit.

IPC 8 full level

**E01B 27/00** (2006.01); **E01B 27/02** (2006.01); **E01B 27/04** (2006.01)

CPC (source: EP)

**E01B 27/00** (2013.01); **E01B 27/027** (2013.01); **E01B 27/04** (2013.01)

Citation (applicant)

- US 4152991 A 19790508 - STEDMAN ROBERT N, et al
- AT 349051 B 19790326 - PLASSER BAHNBAUMASCH FRANZ [AT]

Citation (search report)

- [X] US 4152991 A 19790508 - STEDMAN ROBERT N, et al
- [X] AT 349051 B 19790326 - PLASSER BAHNBAUMASCH FRANZ [AT]
- [A] DE 19848655 A1 19991118 - ZUEBLIN AG [DE]
- [A] DE 102005013947 A1 20061005 - PFLEIDERER INFRASTRUKTUR GMBH [DE]

Cited by

CN102259353A; WO2011147761A1; WO2012103860A1; DE102011010427A1; DE202011110789U1; WO2012103859A1; DE102011010420A1; DE202011110788U1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2020459 A1 20090204**; **EP 2020459 B1 20100317**; AT E461320 T1 20100415; DE 502008000443 D1 20100429

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