

Title (en)  
Machine for taking up ballast from a ballast bed under suction

Title (de)  
Maschine zum Absaugen von Schotter einer Gleis-Schotterbettung

Title (fr)  
Machine aspirant le ballast d'un lit de ballast

Publication  
**EP 0608679 B1 19970709 (DE)**

Application  
**EP 93890250 A 19931222**

Priority  
AT 15293 A 19930129

Abstract (en)  
[origin: EP0608679A1] A machine (1) for taking up ballast from a track ballast bed (2) by suction has a machine frame (5) which is capable of travelling on the track (3) via rail running gear (4) and on which there are provided a suction arrangement (8), having an intake connection (22) with suction opening (23), and a clearing member (9) for transporting the ballast to the suction opening (23), which clearing member cooperates with said suction arrangement and is both height-adjustable and rotatable about a vertical pivot axis (37) via drives (44, 38). The clearing member (9) assigned to the suction arrangement (8) is constructed as an endless clearing chain (30) guided around a horizontally running clearing beam (31) with deflection rollers (32) provided at the ends thereof. The pivot axis (37) is provided at one end (34) of the clearing beam (31) and, in the working position, in the region in front of the sleeper end, and the suction opening (23) of the intake connection (22) is furthermore arranged height-adjustably in the region in front of the sleeper end. <IMAGE>

IPC 1-7  
**E01B 27/10**

IPC 8 full level  
**B61D 3/12** (2006.01); **E01B 27/00** (2006.01); **B61D 15/00** (2006.01); **B61D 47/00** (2006.01); **E01B 27/04** (2006.01); **E01B 27/06** (2006.01); **E01B 27/10** (2006.01)

CPC (source: EP US)  
**E01B 27/04** (2013.01 - EP US); **E01B 27/102** (2013.01 - EP US)

Citation (examination)

- US 1329554 A 19200203 - MIRABEAU SIMS
- DE 4101432 A1 19920723 - MAX KNAPE GMBH & CO FA [DE]
- FR 1065732 A 19540528 - SNCF
- US 2028688 A 19360121 - RUGG WALTER S, et al
- AT 375426 B 19840810 - PLASSER BAHNBAUMASCH FRANZ [AT]

Cited by  
EP0761880A1; AT505911B1; EP0663472A1

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 5456181 A 19951010**; AT E155183 T1 19970715; AT E160400 T1 19971215; AU 5473394 A 19940804; AU 5687294 A 19940815; AU 661421 B2 19950720; AU 672467 B2 19961003; CA 2114490 A1 19940730; CA 2114490 C 20040629; CA 2133102 A1 19940730; CA 2133102 C 20050705; CN 1064097 C 20010404; CN 1064422 C 20010411; CN 1095439 A 19941123; CN 1101787 A 19950419; CZ 232594 A3 19950118; CZ 279014 B6 19941116; CZ 286379 B6 20000315; CZ 8494 A3 19940713; DE 59306881 D1 19970814; DE 59404609 D1 19980102; EP 0608679 A1 19940803; EP 0608679 B1 19970709; EP 0635082 A1 19950125; EP 0635082 B1 19971119; ES 2106313 T3 19971101; ES 2111899 T3 19980316; FI 944258 A0 19940914; FI 944258 A 19940914; HU 215003 B 19980828; HU 216127 B 19990428; HU 9400234 D0 19940530; HU 9402769 D0 19941228; HU T66389 A 19941128; HU T71034 A 19951128; JP 3162399 B2 20010425; JP 3162566 B2 20010508; JP H06240609 A 19940830; JP H07505689 A 19950622; NO 303461 B1 19980713; NO 943569 D0 19940926; NO 943569 L 19940926; PL 302025 A1 19940808; PL 305432 A1 19950109; PL 56602 Y1 19981130; PL 56805 Y1 19990129; RU 2087610 C1 19970820; RU 2087611 C1 19970820; RU 94041214 A 19960710; SK 118394 A3 19950208; SK 280431 B6 20000214; SK 282321 B6 20020107; SK 6794 A3 19940810; US 5611403 A 19970318; WO 9417245 A1 19940804

DOCDB simple family (application)  
**US 18429194 A 19940121**; AT 93890250 T 19931222; AT 9400001 W 19940105; AT 94902530 T 19940105; AU 5473394 A 19940128; AU 5687294 A 19940105; CA 2114490 A 19940128; CA 2133102 A 19940105; CN 94101134 A 19940128; CN 94190038 A 19940105; CZ 232594 A 19940105; CZ 8494 A 19940114; DE 59306881 T 19931222; DE 59404609 T 19940105; EP 93890250 A 19931222; EP 94902530 A 19940105; ES 93890250 T 19931222; ES 94902530 T 19940105; FI 944258 A 19940914; HU 9400234 A 19940127; HU 9402769 A 19940105; JP 51647894 A 19940105; JP 687594 A 19940126; NO 943569 A 19940926; PL 10735094 U 19940126; PL 10792994 U 19940105; PL 30202594 A 19940126; PL 30543294 A 19940105; RU 94002587 A 19940126; RU 94041214 A 19940927; SK 118394 A 19940105; SK 6794 A 19940120; US 31321194 A 19941020