Title (en)
Tamping machine

Title (de)
Stopfmachine

Title (fr)
Bourreuse

Publication
EP 1387003 A3 20041013 (DE)

Application
EP 03450166 A 20030709

Priority
AT 5072002 U 20020729

Abstract (en)
[origin: US2004031412A1] A tamping machine for tamping ballast underneath track ties includes a machine frame extending in a longitudinal direction and supported on the track by two undercarriages. Arranged between the undercarriages is a sub-frame which is supported on the track by a further undercarriage with a unit motive drive and connected to the machine frame by a frame support for displacement relative thereto in the longitudinal direction. A tamping unit and a track lifting unit are arranged on the sub-frame between the further undercarriage and the frame support. Operation of the unit motive drive to displace the sub-frame is assisted by an acceleration drive which is rigidly connected to the machine frame and has a piston end with a bracing plunger provided for temporary application to the sub-frame. A maximum stroke of the acceleration drive is shorter than a maximum displacement path of the sub-frame relative to the machine frame.

IPC 1-7
E01B 27/17

IPC 8 full level
E01B 27/12 (2006.01); **B61D 15/00** (2006.01); **E01B 1/00** (2006.01); **E01B 27/16** (2006.01); **E01B 27/17** (2006.01); **E01B 37/00** (2006.01)

CPC (source: EP US)
E01B 27/17 (2013.01 - EP US)

Citation (search report)
[DA] US 4632037 A 19861230 - THEURER JOSEF [AT], et al

Cited by
WO2023115078A1; WO2022032319A1; EP4008838A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2004031412 A1 20040219; **US 6805059 B2 20041019**; AT 5768 U2 20021125; AT 5768 U3 20030925; AT E320527 T1 20060415; AU 2003227289 A1 20040318; AU 2003227289 B2 20090507; CA 2436290 A1 20040129; CA 2436290 C 20061121; CN 1211535 C 20050720; CN 1472392 A 20040204; DE 50302660 D1 20060511; DK 1387003 T3 20060612; EP 1387003 A2 20040204; EP 1387003 A3 20041013; EP 1387003 B1 20060315; ES 2256710 T3 20060716; JP 2004060439 A 20040226; JP 4108567 B2 20080625; PL 199896 B1 20081128; PL 361372 A1 20040209; RU 2003122390 A 20050120; RU 2256736 C2 20050720; UA 80805 C2 20071112

DOCDB simple family (application)
US 61792903 A 20030711; AT 03450166 T 20030709; AT 5072002 U 20020729; AU 2003227289 A 20030728; CA 2436290 A 20030728; CN 02141451 A 20020830; DE 50302660 T 20030709; DK 03450166 T 20030709; EP 03450166 A 20030709; ES 03450166 T 20030709; JP 2003280047 A 20030725; PL 36137203 A 20030721; RU 2003122390 A 20030723; UA 2003077038 A 20030725