

Title (en)
SHORING PLATE FOR A TRENCHING DEVICE

Publication
EP 0030622 B1 19830615 (DE)

Application
EP 80106997 A 19801113

Priority
DE 2948458 A 19791201

Abstract (en)
[origin: US4345857A] A construction plate for a ditch construction device consists of profiled steel elements which are rigidly coupled with each other and covered with cover plates. At the small sides of the construction plate, profiled steel elements are provided in the form of hollow profiles which are provided with guide heads for coupling adjacent supports or construction plates. The construction plate is provided with at least one vertical hollow profile having on the inner side of the construction plate superimposed horizontal slot openings. A C- or U-shaped profiled guide bar supports horizontally-disposed joints on the rear side of its ribs which are insertable through the slot openings of the vertical throughput openings which are aligned with respect to each other, and insertable therein is a locking rod which engages the joints and/or the hollow profile with wedge elements.

IPC 1-7
E02D 17/08

IPC 8 full level
E02D 5/04 (2006.01); **E02D 17/08** (2006.01)

CPC (source: EP US)
E02D 17/08 (2013.01 - EP US)

Citation (examination)
DE 2422404 A1 19751120 - AUGUST GROTE FA

Cited by
WO2020012118A1; FR3083808A1; EP0396420A3; DE102005019034A1; DE102005019034B4; DE10302284A1; DE10302284B4; DE10113818A1

Designated contracting state (EPC)
AT BE CH FR GB IT LI LU NL SE

DOCDB simple family (publication)
US 4345857 A 19820824; AR 221461 A1 19810130; AT E3783 T1 19830615; AU 533006 B2 19831027; AU 6450680 A 19810611; BR 8007860 A 19810616; CA 1136596 A 19821130; CS 216219 B2 19821029; DE 2948458 B1 19810430; DE 2948458 C2 19820121; DK 153714 B 19880822; DK 153714 C 19890220; DK 503880 A 19810602; EP 0030622 A1 19810624; EP 0030622 B1 19830615; ES 255136 U 19810916; ES 255136 Y 19820301; FI 69671 B 19851129; FI 69671 C 19860310; FI 803653 L 19810602; GR 71610 B 19830617; HU 181229 B 19830628; IE 50212 B1 19860305; IE 802403 L 19810601; IL 61555 A0 19801231; IL 61555 A 19831130; IN 152534 B 19840204; JP S5689627 A 19810721; JP S5942144 B2 19841012; MX 151282 A 19841031; NO 160090 B 19881128; NO 160090 C 19890308; NO 803224 L 19810602; OA 06659 A 19810930; PH 17822 A 19850107; PL 131037 B1 19840929; PL 228115 A1 19810904; PT 72109 A 19801201; PT 72109 B 19811022; RO 81618 A 19830429; RO 81618 B 19830430; SU 965365 A3 19821007; WO 8101581 A1 19810611; YU 301880 A 19830930; YU 41750 B 19871231; ZA 807258 B 19811125

DOCDB simple family (application)
US 21072080 A 19801126; AR 28341180 A 19801128; AT 80106997 T 19801113; AU 6450680 A 19801119; BR 8007860 A 19801128; CA 365062 A 19801120; CS 827780 A 19801128; DE 2948458 A 19791201; DE 8000177 W 19801201; DK 503880 A 19801127; EP 80106997 A 19801113; ES 255136 U 19801127; FI 803653 A 19801124; GR 800163501 A 19801129; HU 285380 A 19801128; IE 240380 A 19801119; IL 6155580 A 19801125; IN 1307CA1980 A 19801124; JP 16812480 A 19801201; MX 18490880 A 19801126; NO 803224 A 19801029; OA 57261 A 19801128; PH 24911 A 19801127; PL 22811580 A 19801127; PT 7210980 A 19801126; RO 10266180 A 19801122; SU 3008604 A 19801125; YU 301880 A 19801127; ZA 807258 A 19801121