

Title (en)

Guiding process and apparatus for inserting elements in the ground

Title (de)

Führungsmethode und -einrichtung zum Einbringen von Gegenständen in den Grund

Title (fr)

Procédé et dispositif de guidage pour l'insertion d'éléments dans le sol

Publication

EP 1178153 B1 20050330 (FR)

Application

EP 01401856 A 20010711

Priority

FR 0010120 A 20000801

Abstract (en)

[origin: EP1178153A1] Topographical reference points (8) are established and used as sites for laser measuring stations (3) which use reflectors (7) on an installation vehicle (1). Distance and angle data are transmitted (9) from the measuring station to a receiver (30) on the installation vehicle and used by a computer (31) to control the orientation in three orthogonal axes of installation arms (5) which insert saddles (2) in fresh concrete (10). Independent claims are made for equipment which uses the installation method

IPC 1-7

E01B 29/32; **E01B 35/02**

IPC 8 full level

B28B 19/00 (2006.01); **E01B 1/00** (2006.01); **E01B 37/00** (2006.01); **E01B 29/00** (2006.01); **E01B 29/32** (2006.01); **E01B 35/02** (2006.01); **G01C 15/02** (2006.01)

CPC (source: EP KR US)

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Cited by

EP3995626A1; FR3116067A1; FR3003276A1; CN102229179A; FR2897079A1; EP1818453A1; FR2897622A1; EP1826319A1; FR2941973A1; FR3028267A1; EP3031983A1; US9909263B2; US7428778B2; US7846046B2; US7325316B2; WO2008103440A3; WO2009030954A1

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