

Title (en)

QUICK RELEASE LOCKING POST ASSEMBLY & BAYONET TYPE SHAFT ANCHORING SYSTEM

Title (de)

SCHNELLFREIGABE-ARRETIERUNGSPFOSTENANORDNUNG UND BAJONETTARTIGES SCHAFTVERANKERUNGSSYSTEM

Title (fr)

ENSEMBLE DE MONTANT DE VERROUILLAGE A LIBERATION RAPIDE&SYSTEME D ANCRAGE D ARBRE DE TYPE BAIONNETTE

Publication

EP 2049738 A1 20090422 (EN)

Application

EP 06709873 A 20060222

Priority

- GB 2006000641 W 20060222
- GB 0504027 A 20050225
- GB 0506582 A 20050331

Abstract (en)

[origin: WO2006090156A1] A removable post has an elongated main body (1) having a cylindrical aperture extending from at least one end (2) thereof, in which is concentrically mounted a shaft (3) so as to be axially movable relative to said main body (1) between a first extended position and a second partially retracted position. The shaft has two arcuate projections (20a, 20b) provided on its end (3b), the projections (20a, 20b) being separated from each other in the circumferential direction by two axial slots (21a, 21b). Each slot (20a, 21b) is intersected by an associated locking slot (22a, 22b) which forms a first part of a bayonet coupling. The shaft (3) further includes a load plate (9) which is axially spaced apart from said projections and a longitudinally extending slot (6) which extends from the load plate (9) towards the projections (20a, 20b). An actuating pin (8) extends through the main body (1) and engages in said slot (6), which pin (8) has a cam surface (8b) formed on it which is engaged by said flange such that, upon rotation of the pin, the flange is moved axially relative to the centre of the pin, thereby causing the shaft to move between its extended and partially retracted positions. The projections (20a, 20b) engage through arcuate openings (31a, 31b) formed in an anchor plate (30), radially extending spacing tabs (32a, 32b) which separate the openings engaging in the axial slots (21a, 21b) and moving into the locking slots (22a, 22b) upon rotation of the post, retraction of the shaft (3) trapping the tabs (32a, 32b) in the locking slots (22a, 22b) so as to lock the post in the anchor.

IPC 8 full level

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CPC (source: EP GB)

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