Title (en)

SYSTEM FOR FIXING SLAB-LIKE ELEMENTS, PARTICULARLY FOR RAILINGS, BALUSTRADES AND PARAPETS

Title (de)

SYSTEM ZUR BEFESTIGUNG PLATTENFÖRMIGER ELEMENTE FÜR GELÄNDER, BALUSTRADEN UND BRÜSTUNGEN

Title (fr)

SYSTÈME DE FIXATION D'ÉLÉMENTS EN FORME DE DALLE, EN PARTICULIER POUR LES GARDE-CORPS, LES BALUSTRADES ET LES PARAPETS

Publication

EP 4102005 A1 20221214 (EN)

Application

EP 22178161 A 20220609

Priority

IT 202100015161 A 20210610

Abstract (en)

The present invention relates to a system for fixing (1) slab-like elements (16), particularly for railings, balustrades and parapets, comprising:- at least one base body (10), configured to be placed and fixed on a generic installation surface, made in the form of a box-shaped profile with a substantially U-shaped cross-section, open at the upper part, defining a channel (14) within which the lower portion of at least one protection slab-like element (16) is inserted;- at least one lower support element (18) mounted on the lower internal surface of said channel (14);- at least one lateral support and retaining element (26) of said at least one slab-like element (16), mounted on a first internal lateral surface (22) of said channel (14), wherein said lateral support and retaining element (26) comprises a plate (27) pivoting around a fixed pin element(38) ;According to the invention, the fixing system (1) comprises a plurality of lateral support and retaining groups (24) of said at least one slab-like element (16), mounted on a second internal lateral surface (20) of said channel (14) which faces said first internal lateral surface (22), each of said lateral support and retaining groups (24) comprising:- a slider (240) pivoting around a fixed pin element (241), said slider (240) comprising a tab (242) protruding towards the inside of said channel (14), and a pair of inclined surfaces (243, 244) that are mutually opposite with respect to said protruding tab (242),- a pair of wedges (245, 246), positioned so as to be mutually opposite with respect to said tab (242), each of said wedges (245, 246) having its own inclined surface (247, 248) adapted to slide on a respective inclined surface (243, 244) of said pair of inclined surfaces (243, 244) of said slider (240), a first wedge (245) of said pair of wedges (245, 246) being clampable on said tab (242) along a first clamping direction, by means of at least a first clamping member (249), a second wedge (246) of said pair of wedges (245, 246) being clampable on said tab (242) along a second clamping direction, substantially opposite to said first clamping direction, by means of at least one second clamping member (250), the adjustment of the clamping of said at least one first clamping member (249) and of said at least one second clamping member (250) allowing to modify, in synergy with the oscillation of said at least one lateral support and retaining element (26), the inclination of said slab-like element (16) around a vertical plane to obtain the perpendicularity of said slab-like element (16).

IPC 8 full level

E04F 11/18 (2006.01)

CPC (source: EP)

E04F 11/1812 (2013.01); **E04F 11/1817** (2013.01); **E04F 11/1834** (2013.01); **E04F 11/1853** (2013.01); E04F 2011/1823 (2013.01)

Citation (applicant)

EP 3009580 B1 20170322 - COMPAS SRL [IT]

Citation (search report)

- [AD] EP 3009580 B1 20170322 - COMPAS SRL [IT]
- [A] EP 3121345 A1 20170125 - QINGDAO JINFER INT TRADING CO LTD [CN]
- [A] EP 2921606 A1 20150923 - QINGDAO JINFER INTERNAT TRADING CO LTD [CN]
- [A] WO 2018111208 A1 20180621 - SAKAR BURAK [TR]
- [A] EP 1818476 A1 20070815 - RAHIKKA JOUKO [FI]

Cited by

CN115928630A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4102005 A1 20221214; **EP 4102005 B1 20231018**; ES 2964130 T3 20240404; IT 202100015161 A1 20221210

DOCDB simple family (application)

EP 22178161 A 20220609; ES 22178161 T 20220609; IT 202100015161 A 20210610