

Title (en)

POCKET-SIZED MANUAL ANCHORING DEVICE, PARTICULARLY FOR A COLLECTIVE PUBLIC TRANSPORT VEHICLES

Title (de)

HANDVERANKERUNGSVORRICHTUNG IN TASCHENFORMAT, INSBESONDERE FÜR ÖFFENTLICHE VERKEHRSMITTEL

Title (fr)

DISPOSITIF D'ANCRAGE MANUEL DE POCHE, NOTAMMENT POUR VEHICULES COLLECTIFS DE TRANSPORT PUBLIC

Publication

**EP 4180593 A1 20230517 (EN)**

Application

**EP 22204383 A 20221028**

Priority

IT 202100028694 A 20211111

Abstract (en)

A pocket-sized manual anchoring device (1) to allow a user holding said device (1) to anchor him/herself to a support, in particular in a public transport vehicle, comprising: a handle body (10) defining an handle body outer surface (18) configured to be held in a user's hand, and an inner handle compartment (12) open towards the outside of said handle body (10) through an opening (13) in said handle body outer surface (18); an anchoring element (30) movably constrained to said handle body (10) between an extracted configuration, in which said anchoring element (30) is at least partially extracted outside said handle body (10) so as to be anchored to said support, and a retracted configuration, in which said anchoring element (30) is accommodated within said inner handle compartment (12), said anchoring element (30) comprising a hook-shaped body (31) which has a first end portion (32) curved in a hook, extending about an anchoring area (39) and defining an inner hook surface (35) facing said anchoring area (39), a second, opposite end portion (33) movably constrained to said handle (10) within said inner handle compartment (12), an intermediate portion (34) which connects said first end portion (32) and said second end portion (33); locking and releasing means (50) configured to lock said anchoring element (30) selectively in said extracted configuration and in said retracted configuration and to release said anchoring element (30) so that it can move from said extracted configuration to said retracted configuration and vice versa.

IPC 8 full level

**E05B 1/00** (2006.01); **A45F 5/00** (2006.01); **B25B 9/00** (2006.01); **B60N 3/02** (2006.01)

CPC (source: EP)

**E05B 1/0053** (2013.01)

Citation (search report)

- [XYI] US 7178845 B1 20070220 - METZGER PAUL [US], et al
- [X] US 2461941 A 19490215 - SUTTON ROBERT W
- [X] WO 2020215162 A1 20201029 - GUAY PATRICE [CA]
- [Y] DE 202020003306 U1 20200903 - RIECK MARKUS [DE]
- [X] CN 203528353 U 20140409 - QIAN SHUBEI

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4180593 A1 20230517**; IT 202100028694 A1 20230511

DOCDB simple family (application)

**EP 22204383 A 20221028**; IT 202100028694 A 20211111