

Title (en)  
CONCRETE ACCESS-DENIAL BLOCK

Title (de)  
ZUTRITTSVERWEIGERNDER BETONBLOCK

Title (fr)  
BLOC DE BETON ANTI-FRANCHISSEMENT

Publication  
**EP 3574148 B1 20211201 (FR)**

Application  
**EP 18706401 A 20180126**

Priority  
• FR 1770085 A 20170126  
• EP 2018051979 W 20180126

Abstract (en)  
[origin: CA3051788A1] The subject of the invention is a concrete block (1), preferably made of fibre-reinforced concrete, comprising a body (10) and anchor means (2) intended for lifting the block, and characterized in that the anchor means (2) are secured to the body and arranged in blind cavities without protruding out of these cavities, particularly arranged at the level of one of the faces of the body of the block such as the upper face of the block when the block is in the installed position on the ground, and in that the body comprises reservations (14) and/or attachment/association means, the said reservations and the attachment/association means being intended for attaching, preferably removably, or associating, technical equipment that is to be associated with the block. The concrete block (1) is intended to constitute an access-denial bollard and, as a secondary function, a block for supporting and to which to fix technical equipment.

IPC 8 full level  
**E01F 13/00** (2006.01); **E01F 9/692** (2016.01); **E01F 13/02** (2006.01); **E01F 13/12** (2006.01)

CPC (source: EP US)  
**E01F 9/692** (2016.02 - EP US); **E01F 13/00** (2013.01 - EP); **E01F 13/02** (2013.01 - EP); **E01F 13/028** (2013.01 - EP US);  
**E01F 13/12** (2013.01 - EP US)

Citation (examination)  
• JP 2002004242 A 20020109 - TETRA KK  
• US 5556230 A 19960917 - TURK GEORGE F [US], et al

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

DOCDB simple family (publication)  
**FR 3062142 A1 20180727**; **FR 3062142 B1 20201023**; CA 3051788 A1 20180802; EP 3574148 A1 20191204; EP 3574148 B1 20211201;  
ES 2908361 T3 20220428; US 11655601 B2 20230523; US 2019382970 A1 20191219; WO 2018138276 A1 20180802

DOCDB simple family (application)  
**FR 1770085 A 20170126**; CA 3051788 A 20180126; EP 18706401 A 20180126; EP 2018051979 W 20180126; ES 18706401 T 20180126;  
US 201816481219 A 20180126