

Title (en)
SYSTEM FOR LEVELLING TILES

Title (de)
SYSTEM ZUM AUSNIVELLIEREN VON FLIESEN

Title (fr)
SYSTÈME DE NIVELLEMENT DE CARREAUX

Publication
EP 3722537 A1 20201014 (EN)

Application
EP 19472003 A 20191021

Priority
BG 43051919 A 20190412

Abstract (en)
The utility model relates to a system for leveling tiles and finds application in construction. The tiles levelling system comprises a retainer (1) and a tensioning key (2). The retainer (1) contains a base (3) and a locking plate (4) vertically mounted on the base (3). At the point of connection of the base (3) and the locking plate (4) a weak tearing zone (5) is formed to allow separation of the base (3) from the locking plate (4). In the lower part of the locking plate (4) are formed stabilizing arms (14), on which are longitudinally positioned ribs (15). On both sides in the upper part of the locking plate (4) is installed a guide (6) of cylindrical shape to place the tensioning key (2). The tensioning key (2) has a head (8) consisting of two identical arches (17) placed at a distance from each other and connected to a common handle (7). The inner diameter (d) of each arch (17) corresponds to the outer diameter of the guide (6) and on the outer surface (11) of each arch (17) are formed transverse ribs (13) that allow the tensioning key (2) to engage the tiles (16). On the outer surfaces (11) of the arches (17) are provided protruding sections (12). The thickness (C) of the locking plate (4) corresponds to the distance between the two arches (17) and is functionally dependent on the width of the joint between the tiles. The distance (F) between the center of the hole (10) on the guide (6) and the base (3) is functionally dependent on the thickness of the tiles. In an alternate embodiment, in the uppermost part of the locking plate (4) is formed a transition section (18) and on the circumference of the locking plate (4), on both sides of its vertical axis are formed teeth (19) inclined down to the base (3). The base (3) and the locking plate (4) are made of plastic material.

IPC 8 full level
E04F 21/00 (2006.01); **E04F 21/18** (2006.01)

CPC (source: EP)
E04F 21/0092 (2013.01); **E04F 21/1877** (2013.01)

Citation (applicant)
WO 2018136171 A1 20180726 - DAVINCI ITALIA/USA GROUP LLC [US]

Citation (search report)
• [AD] WO 2018136171 A1 20180726 - DAVINCI ITALIA/USA GROUP LLC [US]
• [A] US 2014325935 A1 20141106 - HOFFMAN JAMES P [US], et al
• [A] US 2015184355 A1 20150702 - WANG PING-KUN [TW]
• [A] JP 2013204318 A 20131007 - KAWASHIMA SELKON TEXTILES CO, 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3722537 A1 20201014

DOCDB simple family (application)
EP 19472003 A 20191021