

Title (en)  
TILE HAVING A SUBSTANTIALLY FLAT STRUCTURE

Title (de)  
DACHZIEGEL MIT IM WESENTLICHEN FLACHER STRUKTUR

Title (fr)  
TUILE À STRUCTURE SENSIBLEMENT PLATE

Publication  
**EP 3921487 B1 20220928 (FR)**

Application  
**EP 20707509 A 20200203**

Priority  
• FR 1901140 A 20190205  
• FR 2020050174 W 20200203

Abstract (en)  
[origin: WO2020161424A1] The invention relates to a tile (1) having a substantially flat structure, comprising an inner surface (3) opposite a roof having a slope, and an outer surface (2) opposite the inner surface (3), the outer surface (2) comprising: - a gauge (4), - an upper interlocking portion (5), the upper interlocking portion (5) being configured to be overlapped by an adjacent tile in the longitudinal direction, - an outer lateral interlocking portion (6), the outer lateral interlocking portion (6) being configured to be overlapped by an adjacent tile in a transverse direction of the roof, wherein the inner surface comprises an inner lateral interlocking portion comprising at least one rib, and in which the outer lateral interlocking portion (6) has at least one groove (8, 9, 10), the at least one groove (8, 9, 10) being configured to receive one of the at least one rib of the inner lateral interlocking portion of the adjacent tile in the transverse direction, wherein a bottom wall of the at least one groove (8, 9, 10) comprises a stepped portion (14), the stepped portion (14) having at least one counter-step surface (16) turned towards a lower longitudinal end of the tile in order to obstruct a rise of rainwater in the groove.

IPC 8 full level  
**E04D 1/16** (2006.01); **E04D 1/00** (2006.01)

CPC (source: EP)  
**E04D 1/16** (2013.01); **E04D 1/2916** (2019.08); **E04D 1/2918** (2019.08); **E04D 1/2949** (2019.08); **E04D 1/2956** (2019.08)

Citation (opposition)  
Opponent : ERLUS Aktiengesellschaft  
• EP 0175500 A2 19860326 - REDLAND ROOF TILES LTD [GB]  
• FR 2277954 A1 19760206 - GUERIN BARTHELEMY [FR]  
• JP H02266051 A 19901030 - TAKENAKA KOMUTEN CO  
• JP H10299178 A 19981110 - MATSUSHITA ELECTRIC WORKS LTD  
• FR 2592082 A1 19870626 - ANSAULT PIERRE [FR]  
• FR 2612227 A1 19880916 - PEHL MARTIN [DE]  
• JP 2019112899 A 20190711 - TSURUYA CO  
• DE 3025813 A1 19820204 - LUDOWICI MICHAEL CHRISTIAN  
• FR 2800406 A3 20010504 - CERAMICAS BORJA S A [ES]  
• EP 0432783 A1 19910619 - LUDOWICI MICHAEL CHRISTIAN [DE]  
• EP 0303993 A1 19890222 - LUDOWICI MICHAEL CHRISTIAN  
• DE 2626618 A1 19771215 - ERLUS BAUSTOFFWERKE  
• FR 1369567 A 19640814  
• FR 3049972 A1 20171013 - WIENERBERGER [FR]  
• DE 1434134 A1 19681031 - BISCH JACQUES  
• WO 02095160 A1 20021128 - MEINDL JOSEF GMBH & CO [DE]  
• EP 2045411 A2 20090408 - IND COTTO POSSAGNO S P A [IT]  
• US 2015354229 A1 20151210 - MAURER MICHAEL W [US], et al  
• BE 1010828 A6 19990202 - SMEETS DOMINIQUE [BE]  
• FR 850624 A 19391221  
• EP 2236689 A1 20101006 - WIENERBERGER [FR]  
• ANONYMOUS: "ERLUS design awards", ERLUS AG, 1 January 2022 (2022-01-01), XP093127108, Retrieved from the Internet <URL:https://www.erlus.com/en/ERLUS-Designpreise> [retrieved on 20240205]

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 3092352 A1 20200807**; **FR 3092352 B1 20210507**; EP 3921487 A1 20211215; EP 3921487 B1 20220928; ES 2930021 T3 20221205; HU E060516 T2 20230328; PL 3921487 T3 20230227; WO 2020161424 A1 20200813

DOCDB simple family (application)  
**FR 1901140 A 20190205**; EP 20707509 A 20200203; ES 20707509 T 20200203; FR 2020050174 W 20200203; HU E20707509 A 20200203; PL 20707509 T 20200203