

Title (en)
PROTECTIVE WARNING FENCE

Title (de)
WARN-SCHUTZZAUN

Title (fr)
BARRIÈRE DE PROTECTION ET D'ALERTE

Publication
EP 3714104 B1 20211222 (DE)

Application
EP 18786691 A 20181001

Priority
• DE 102017127321 A 20171120
• EP 2018076691 W 20181001

Abstract (en)
[origin: WO2019096483A1] The invention relates to a protective warning fence for a preventative protection of road work, construction work, and/or excavation work, consisting of a lattice comprising fringes (1, 1') and weft threads (2), which are interwoven, and retroreflective elements (3), wherein the retroreflective elements (3) are strips. The fringes and weft threads (1, 1', 2) are made of a polyolefin or have same, and the retroreflective elements (3) are woven onto the lattice by means of at least one weft thread (4), wherein the at least one weft thread (4) is woven onto the retroreflective elements (3) in a zigzagging manner. At least the outer fringes (1) are made of two or more respective threads (31, 32), and/or at least the outer fringes (1) comprise two or more respective sub-fringes (11, 12) which are connected together by means of at least one weft thread (5) running in a zigzagging manner such that the sub-fringes run directly adjacently to one another in a parallel manner.

IPC 8 full level
E01F 13/02 (2006.01); **D04B 21/10** (2006.01)

CPC (source: EP IL)
D03D 19/00 (2013.01 - IL); **D04B 21/10** (2013.01 - EP IL); **E01F 13/028** (2013.01 - EP IL); **D10B 2401/20** (2013.01 - EP IL);
D10B 2403/0243 (2013.01 - EP IL); **D10B 2507/02** (2013.01 - EP IL)

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)
WO 2019096483 A1 20190523; CA 3082532 A1 20190523; DE 102017127321 A1 20190523; EP 3714104 A1 20200930;
EP 3714104 B1 20211222; ES 2907803 T3 20220426; IL 274782 A 20200730; IL 274782 B2 20230601; JP 2021503575 A 20210212;
JP 7177845 B2 20221124; RU 2020119736 A 20211222; TW 201930687 A 20190801; TW I793213 B 20230221

DOCDB simple family (application)
EP 2018076691 W 20181001; CA 3082532 A 20181001; DE 102017127321 A 20171120; EP 18786691 A 20181001; ES 18786691 T 20181001;
IL 27478220 A 20200519; JP 2020545433 A 20181001; RU 2020119736 A 20181001; TW 107140623 A 20181115