

Title (en)

SUPPORTING AND REINFORCING ELEMENT, FLAT METAL SHEET, DRAINAGE SYSTEM AND PRODUCTION METHOD

Title (de)

STÜTZ- UND VERSTÄRKUNGSELEMENT, FLACHBLECH, ENTWÄSSERUNGSSYSTEM UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

ÉLÉMENT DE SUPPORT ET DE RENFORCEMENT, TÔLE PLATE, SYSTÈME DE DRAINAGE ET PROCÉDÉ DE FABRICATION

Publication

**EP 3755849 A1 20201230 (DE)**

Application

**EP 19709381 A 20190220**

Priority

- DE 102018104121 A 20180223
- EP 2019054169 W 20190220

Abstract (en)

[origin: WO2019162305A1] The invention relates to a supporting and reinforcing element for a box gutter for linear-drainage purposes, having a base piece (10) and two side parts (11), which form a U-shaped profile (13) for accommodating the box gutter, wherein the base piece (10) is designed in the form of a bearing means for a base of the box gutter. The invention is distinguished in that the base piece (10) and the side parts (11) form sheet-metal profiles (14) which are bent in an L-shaped manner in each case.

IPC 8 full level

**E03F 5/04** (2006.01); **E04B 1/26** (2006.01)

CPC (source: EP RU)

**E01C 11/22** (2013.01 - RU); **E03F 5/04** (2013.01 - RU); **E03F 5/041** (2013.01 - EP); **E04B 1/24** (2013.01 - RU); **E03F 2005/0412** (2013.01 - EP); **E03F 2005/0413** (2013.01 - EP)

Citation (search report)

See references of WO 2019162305A1

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)

**WO 2019162305 A1 20190829**; CN 111742105 A 20201002; CN 111742105 B 20211001; DE 102018104121 A1 20190829; DE 102018104121 B4 20211202; EP 3755849 A1 20201230; RU 2762934 C1 20211224; ZA 202005749 B 20210825

DOCDB simple family (application)

**EP 2019054169 W 20190220**; CN 201980014457 A 20190220; DE 102018104121 A 20180223; EP 19709381 A 20190220; RU 2020130457 A 20190220; ZA 202005749 A 20200916