

Title (en)

GUTTER CONNECTOR MADE OF SHEET METAL AND A METHOD FOR CONNECTING GUTTERS MADE OF SHEET METAL

Title (de)

AUS METALLBLECH HERGESTELLTER REGENRINNENVERBINDER UND VERFAHREN ZUR VERBINDUNG VON AUS METALLBLECH HERGESTELLTEN REGENRINNEN

Title (fr)

RACCORD DE GOUTTIÈRE EN TÔLE ET PROCÉDÉ DE RACCORDEMENT DE GOUTTIÈRES EN TÔLE

Publication

**EP 4010543 A1 20220615 (EN)**

Application

**EP 20850327 A 20200721**

Priority

- PL 43082919 A 20190806
- PL 2020050052 W 20200721

Abstract (en)

[origin: WO2021025567A1] Gutter connector of gutters, in particular semicircular or square gutters, made of steel sheet of the socket type, characterized in that the mouth of the socket (2) of the first connected gutter R1 is flush with the outer plane of the gutter R1, and the second connected gutter R2 has a spigot end (1) of a certain length  $x_1$ , constituting a section of the gutter trough, without a flange, embossed with embossing (6) parallel to the plane of the gutter trough R2, towards the inside of the trough by one gutter thickness R1 and R2, and a strip on the side of the socket (2) of length  $x_2 = x_1$  of the rear groove (5) of the first connected gutter R1 is separated by a cut-out (4) in the catch tongue (3) transversely to the gutter and, in the setting before assembly, left outside the area of the first combined gutter R1. A method for joining gutters, in particular made of sheet metal semicircular or square gutters, characterized in that the socket-type connection is used in which the outlet of the first connecting gutter R1 socket (2) is flush with the external surface of the gutter R1 trough, while in the second connected gutter R2, the spigot end (1) of some length  $x_1$  is separated and then deprived of the flange in this section of the gutter trough, and is then pressed (6) parallel to the plane of the gutter R2 trough, towards the inside of the trough, by one gutters R1 and R2 thickness, and a strip with a length of  $x_2 = x_1$  is separated from the side of the socket (2) from the rear flange (5b) of the first connected R1 gutter, connected by a transverse in relation to the gutter cut (4) into the hook tongue (3), which moves this tongue out of the first connected gutter R1 trough, and then the front edge (8a) of the spigot end (1) of the second connected gutter R2 is inserted frontally, with the second connected gutter R2 being inclined at an angle to the horizontal plane, into the frontal flange (5a) of the first connected gutter R1, mounted in the supporting hook of the first connected gutter H1 mounted on a rafter K, and having encountered resistance, the front edge (8a) of the spigot end (1) of the second connected gutter R2 resists against the front flange (5a) of the first connected gutter R1 and in the supporting hook of the second connected gutter H2 mounted on the rafter K and in relation to this line of constriction (7), rotates the second connecting gutter R2 towards the interior of the trough of the first connected gutter R1 until the rear edge (8b) of the spigot end (1) of the second connected gutter R2 is fixed below the catch tongue base (3) and then it clamps the catch tongue on this rear edge (8b).

IPC 8 full level

**E04D 13/068** (2006.01); **E04D 13/04** (2006.01); **E04D 13/064** (2006.01)

CPC (source: EP)

**E04D 13/068** (2013.01)

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 2021025567 A1 20210211**; EP 4010543 A1 20220615; EP 4010543 A4 20230809; PL 237824 B1 20210531; PL 430829 A1 20210208

DOCDB simple family (application)

**PL 2020050052 W 20200721**; EP 20850327 A 20200721; PL 43082919 A 20190806