

Title (en)  
PLUG CONNECTOR FOR CONNECTING ENDS OF WINDOW PROFILES

Title (de)  
STECKVERBINDER ZUR VERBINDUNG VON ENDEN VON FENSTERPROFILIEN

Title (fr)  
CONNECTEUR ENFICHABLE POUR CONNECTER DES EXTRÉMITÉS DE PROFILS DE FENÊTRE

Publication  
**EP 3730732 B1 20211110 (EN)**

Application  
**EP 20166464 A 20200327**

Priority  
PL 42942419 A 20190329

Abstract (en)  
[origin: EP3730732A1] Plug-in joining member (1) designed to make connections between ends of window frame profiles is formed as an elongated piece with nearly U-shaped cross-section and comprising a bottom wall (2) and side walls (3) adjacent to the bottom wall (2) down its side edges. Side walls (3) of the joining member (1) are provided with friction claws (4), arranged at the both sides of the central line (O) and turned towards the central line (O) of the joining member (1). The joining member (1) also has at least one central stop (5, 5'). Cam radiiuses  $R_{1}$ ,  $R_{2}$ ,  $R_{3}$ ,  $R_{4}$  in working portions (4A) of each subsequent friction claw (4) on a specific side wall (3) gradually increase from each far end of the joining member (1) towards the central line (O) of the joining member (1), whereas tips (7) of working portions (4A) of friction claws (4), after having them bent out to working positions, are arranged at the same elevations above the bottom wall (2). Preferably, uniform stiffness of all friction claws (4) is maintained and tips (7) of working portions (4A) of friction claws extend outwardly to the same distance with reference to the longitudinal central axis ( $O_{1}$ ) of the joining member (1).

IPC 8 full level  
**E06B 3/667** (2006.01)

CPC (source: EP)  
**E06B 3/667** (2013.01)

Citation (opposition)  
Opponent : Eduard Kronenberg GmbH  
• DE 202004004933 U1 20050721 - KRONENBERG MAX [DE], et al  
• DE 202015105061 U1 20161229 - KRONENBERG RALF M [DE]  
• DE 202012102380 U1 20130930 - KRONENBERG MAX [DE], et al  
• DE 202014104222 U8 20160317 - KRONENBERG RALF MAX [DE]  
• EP 0916013 B1 20000301 - KRONENBERG MAX [DE]  
• WO 2018162584 A1 20180913 - KRONENBERG RALF M [DE]  
• WO 0223004 A1 20020321 - KRONENBERG MAX [DE]  
• DE 202005004601 U1 20060223 - KRONENBERG MAX [DE], et al  
• WO 9934083 A1 19990708 - KRONENBERG MAX [DE]

Cited by  
US11555347B2

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)  
**EP 3730732 A1 20201028; EP 3730732 B1 20211110**; DK 3730732 T3 20220103; PL 244055 B1 20231127; PL 3730732 T3 20220117; PL 429424 A1 20201005

DOCDB simple family (application)  
**EP 20166464 A 20200327**; DK 20166464 T 20200327; PL 20166464 T 20200327; PL 42942419 A 20190329