Title (en)

CONNECTION ARRANGEMENT

Title (de

VERBINDUNGSANORDNUNG

Title (fr)

AGENCEMENT DE CONNEXION

Publication

EP 4056778 A1 20220914 (EN)

Application

EP 22158157 A 20220223

Priority

FI 20215264 A 20210311

Abstract (en)

A connection arrangement for connecting a vertical element and a beam (31) to each other, the connection arrangement comprising a beam part fastenable to an end of the beam (31), which beam part comprises an end plate (41) in which there is a downwardly open slot (48), at the bottom of which there is an abutment surface (58), and a column part fastenable to the vertical element, which column part comprises a tongue part (40) having a support surface (62) against which the abutment surface (58) of the slot (48) is arranged to be supported. On opposite sides of the tongue part (40) there are upper support surfaces (66), and in an upper part of the slot (48), on opposite sides, there are upper abutment surfaces (54), one of which is arranged to be supported against the upper support surface (66) of the tongue part (40) when the beam part has been installed onto the column part and a torsional moment acts on the beam part. On opposite sides of the tongue part (40) there are lower support surfaces (67), and a housing (50) is fastened to a back surface of the end plate (41) on either side of the slot (48), inside which housing the lower support surfaces (67) of the tongue part are arranged when the beam part has been installed onto the column part. An inner side surface (68) of the housing (50) is arranged to be supported to the lower support surface (67) of the tongue part (40) when a torsional moment acts on the beam part. On the side of the tongue part (40) there is an inclined side support surface (61), which is inside the housing (50) when the beam part has been installed onto the column part, and the connection arrangement comprises a wedge (64) which is arrangeable against the inclined side support surface (61) and the inner surface (68) of the housing (50) in order to support the tongue part (40) to the inner side surface (68) of the housing (50).

IPC 8 full level

E04B 1/21 (2006.01)

CPC (source: EP FI)

E04B 1/215 (2013.01 - EP FI); E04B 1/2403 (2013.01 - FI)

Citation (applicant)

- FI 83358 C 19910625 PATAMAA ESKO [FI]
- EP 1334244 A1 20030813 TERAESPEIKKO OY [FI]
- FI 89193 C 19930825 OESTSPENN HOLDING [NO]
- FI 72369 C 19870511 PARTEK AB [FI]

Citation (search report)

- [IA] EP 1405957 A1 20040407 TARTUNTAMARKKINOINTI OY [FI]
- [A] US 5061111 A 19911029 HOSOKAWA KIYOSHI [JP]
- [AD] WO 8808059 A1 19881020 OESTSPENN HOLDING [NO]

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

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