

Title (en)

Node for connecting struts of a space frame

Title (de)

Knoten zum Verbinden von Stäben eines Flächentragwerks

Title (fr)

Noeud de connection des barres d'une structure spatiale réticulée

Publication

EP 1593789 A3 20061213 (DE)

Application

EP 05103369 A 20050426

Priority

AT 7622004 A 20040503

Abstract (en)

[origin: EP1593789A2] The nodal unit (1) for joining several bars of an areal support structure comprises a star-like configuration of arms (2) whose plane side surfaces (3) are oriented to form required angles with the plane of the unit. Independent claims are also included for: (A) an area support structure with the proposed nodal units and bars; (B) a sealing element for a node unit and bars joined to it; (C) a sealing system consisting of such sealing elements; (D) an areal support structure with cover elements.

IPC 8 full level

E04B 1/19 (2006.01); **E04B 1/32** (2006.01); **E04B 1/58** (2006.01); **E04B 1/66** (2006.01)

CPC (source: EP)

E04B 1/32 (2013.01); **E04B 2001/3247** (2013.01); **E04B 2001/3252** (2013.01); **E04B 2001/3294** (2013.01)

Citation (search report)

- [A] US 4953329 A 19900904 - FRANTL ERICH [AT]
- [A] DE 2506008 A1 19760819 - ALCO BAUZUBEHOER
- [A] US 4379649 A 19830412 - PHILLIPS MARTHA E [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 198 (M - 1398) 19 April 1993 (1993-04-19)

Cited by

CN106593072A; WO2008014761A1; DE202009013261U1; EP2312074A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1593789 A2 20051109; **EP 1593789 A3 20061213**; **EP 1593789 B1 20110713**; AT 500438 A2 20051215; AT 500438 B1 20090115; AT E516412 T1 20110715; DE 102004025957 A1 20060105

DOCDB simple family (application)

EP 05103369 A 20050426; AT 05103369 T 20050426; AT 7622004 A 20040503; DE 102004025957 A 20040527