

Title (en)

LONG SPAN DOMES AND CONSTRUCTION THEREOF

Title (de)

KUPPELN MIT GROSSER SPANNWEITE UND DEREN KONSTRUKTION

Title (fr)

DÔMES À LONGUE PORTÉE ET CONSTRUCTION ASSOCIÉE

Publication

EP 4253680 A1 20231004 (EN)

Application

EP 22166156 A 20220331

Priority

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Abstract (en)

A long span truss dome comprises:(a) a plurality of trusses, wherein each truss comprises:(i) a compression member,(ii) a tension member, and(iii) a plurality of intermediate members,(b) a compression ring,(c) a tension ring,wherein a first end of the compression member of each truss is connected to the compression ring,wherein a first end of the tension member of each truss is connected to the tension ring,wherein a first end of each intermediate member is connected to the compression member,wherein a second end of each intermediate member is connected to the tension member, andwherein each truss experiences axial forces, the axial forces experienced by the intermediate members being less than 5% of the axial forces experienced by the compression member and less than 5% of the axial forces experienced by the tension member.

IPC 8 full level

E04B 1/32 (2006.01); **E04B 1/342** (2006.01); **E04B 7/10** (2006.01); **E04B 1/24** (2006.01); **E04C 3/04** (2006.01)

CPC (source: EP)

E04B 1/3211 (2013.01); **E04B 1/342** (2013.01); **E04B 2001/249** (2013.01); **E04B 2001/2496** (2013.01); **E04B 2001/3235** (2013.01); **E04C 2003/0491** (2013.01); **E04C 2003/0495** (2013.01)

Citation (search report)

- [I] CH 426201 A 19661215 - VEVEY ATEL CONST MEC [CH]
- [XAI] CN 110258802 A 20190920 - UNIV SOUTHEAST
- [XA] WO 0102657 A1 20010111 - TOMLINSON ANDREW DAVID [GB], et al
- [A] US 5067288 A 19911126 - TAKAHAMA YOSHIHIRO [JP], et al
- [A] JP H07197582 A 19950801 - KAWAGUCHI MAMORU, et al
- [A] JP H09256535 A 19970930 - TOMOE CORP

Cited by

CN113775096A; CN117905169A

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)

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KH MA MD TN

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