

Title (en)
SWIVEL HUB FOR TENT POLES

Title (de)
SCHWENKBARE NABE FÜR ZELTSTANGEN

Title (fr)
EMBOUT PIVOTANT POUR MÂTS DE TENTE

Publication
EP 3449072 A4 20200108 (EN)

Application
EP 17790173 A 20170424

Priority
• US 201662328199 P 20160427
• US 2017029065 W 20170424

Abstract (en)
[origin: WO2017189399A1] A tent-pole hub includes a base member including a perimeter wall having first and second opposing orifices formed therethrough and having an upper rim defining a base-member upper orifice having a width. The hub further includes a swivel member having a channel formed therethrough. The swivel member has a bottom portion disposed below the channel. The bottom portion has a width that exceeds the width of the base-member upper orifice.

IPC 8 full level
F16B 7/04 (2006.01); **E04H 15/32** (2006.01)

CPC (source: EP KR US)
E04H 15/32 (2013.01 - EP US); **E04H 15/48** (2013.01 - US); **E04H 15/60** (2013.01 - KR); **F16B 7/044** (2013.01 - KR); **F16B 7/0493** (2013.01 - EP US)

Citation (search report)
• [X] KR 20110002454 U 20110309
• [X] KR 101161621 B1 20120704 - OSUNG DURALUMIN CO LTD [KR]
• [X] KR 101154851 B1 20120618 - OSUNG DURALUMIN CO LTD [KR]
• See references of WO 2017189399A1

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)
WO 2017189399 A1 20171102; CA 3022465 A1 20171102; CN 109196175 A 20190111; EP 3449072 A1 20190306; EP 3449072 A4 20200108; JP 2019519698 A 20190711; KR 20190043497 A 20190426; US 2019153745 A1 20190523

DOCDB simple family (application)
US 2017029065 W 20170424; CA 3022465 A 20170424; CN 201780026162 A 20170424; EP 17790173 A 20170424; JP 2018556397 A 20170424; KR 20187033808 A 20170424; US 201716096713 A 20170424