

Title (en)
PARTS ASSEMBLY, PANEL, AND TANK

Title (de)
ANORDNUNGEN VON TEILEN, PANEEL UND TANK

Title (fr)
ENSEMBLE DE PIÈCES, PANNEAU ET RÉSERVOIR

Publication
EP 3768611 A4 20211110 (EN)

Application
EP 19770902 A 20190320

Priority
• US 201862646666 P 20180322
• CA 2019050341 W 20190320

Abstract (en)
[origin: WO2019178688A1] A parts assembly, a tank, and a panel discussed, including a first wall; a second wall, a first edge of the first wall facing a second edge of the second wall; a first flange connected to and extending outward from the first wall; a second flange connected to and extending outward from the second wall, the second flange being spaced from and disposed opposite the first flange; at least one fastener extending through and connecting the first flange and the second flange, the at least one fastener being pre-tensioned; and at least one rigid spacing member disposed between the first flange and the second flange, the rigid spacing member being spaced from the at least one fastener, the rigid spacing member being in contact with the first and second flanges, the at least one fastener being disposed between the rigid spacing member and the first and second walls.

IPC 8 full level
B65D 90/08 (2006.01); **B65D 88/08** (2006.01); **B65D 90/02** (2019.01); **F16S 1/02** (2006.01); **F16S 1/10** (2006.01)

CPC (source: EP US)
B65D 88/08 (2013.01 - EP US); **B65D 90/024** (2013.01 - EP US); **B65D 90/08** (2013.01 - EP US); **E04B 1/388** (2023.08 - US); **E04H 7/06** (2013.01 - US); **E04B 1/08** (2013.01 - US)

Citation (search report)
• [IA] AU 4514097 A 19990527 - BRIEN COLIN STEVEN
• [I] WO 0136314 A2 20010525 - KIM DONG GYUN [KR]
• [IA] US 5851033 A 19981222 - HUNT E STEPHEN [US], et al
• [A] DE 3038517 A1 19811001 - NORDON IND METALURGICAS [BR]
• See references of WO 2019178688A1

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 2019178688 A1 20190926; AU 2019239796 A1 20220505; BR 112020019159 A2 20210105; CA 3086260 A1 20190926; CA 3086260 C 20210316; CL 2020002429 A1 20210514; CN 112292335 A 20210129; EP 3768611 A1 20210127; EP 3768611 A4 20211110; MX 2020009835 A 20210115; PE 20210353 A1 20210226; US 2020378144 A1 20201203; US 2022056723 A1 20220224

DOCDB simple family (application)
CA 2019050341 W 20190320; AU 2019239796 A 20190320; BR 112020019159 A 20190320; CA 3086260 A 20190320; CL 2020002429 A 20200922; CN 201980020845 A 20190320; EP 19770902 A 20190320; MX 2020009835 A 20190320; PE 2020001453 A 20190320; US 201916957945 A 20190320; US 202117519977 A 20211105