

Title (en)

LOCKING MECHANISMS FOR VESSELS FOR SWIMMING POOL AND SPA EQUIPMENT

Title (de)

VERRIEGELUNGSMECHANISMEN FÜR SCHIFFE FÜR SCHWIMMBAD- UND SPA-AUSRÜSTUNG

Title (fr)

MÉCANISMES DE VERROUILLAGE POUR RÉCIPIENTS D'ÉQUIPEMENT DE PISCINE ET DE SPA

Publication

**EP 4165261 A1 20230419 (EN)**

Application

**EP 21769236 A 20210816**

Priority

- US 202063067980 P 20200820
- US 2021046139 W 20210816

Abstract (en)

[origin: US2022056907A1] Disclosed are improved locking mechanisms for vessels, including both pressure and vacuum/suction vessels, used in swimming pool and spa equipment. These improved locking mechanisms provide a more robust, reliable seal between the lid and the body of the vessel, and include features that make moving the vessel between its sealed and unsealed positions easier. More specifically, the locking mechanisms include features that allow the lid to move into its sealed position when the locking ring is rotated relative to the vessel in a first direction, and that allow the lid to release from its sealed position and lift off the body when the locking ring is rotated relative to the vessel in a second direction opposite the first direction.

IPC 8 full level

**E04H 4/12** (2006.01); **B65D 43/02** (2006.01)

CPC (source: EP US)

**E04H 4/12** (2013.01 - EP); **E04H 4/16** (2013.01 - US); **F04B 53/16** (2013.01 - US)

Citation (search report)

See references of WO 2022040087A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**US 2022056907 A1 20220224**; AU 2021328514 A1 20230119; EP 4165261 A1 20230419; WO 2022040087 A1 20220224

DOCDB simple family (application)

**US 202117403330 A 20210816**; AU 2021328514 A 20210816; EP 21769236 A 20210816; US 2021046139 W 20210816