

Title (en)  
A LIQUID EJECTION APPARATUS

Title (de)  
FLÜSSIGKEITSAUSSTOSSVORRICHTUNG

Title (fr)  
APPAREIL D'ÉJECTION DE LIQUIDE

Publication  
**EP 4098368 A1 20221207 (EN)**

Application  
**EP 21176900 A 20210531**

Priority  
EP 21176900 A 20210531

Abstract (en)  
A liquid ejection apparatus (1) for cleaning an interior surface (2) of a tank (3), wherein the liquid ejection apparatus (1) is configured to be attached to a flow pipe (4) that extends into the tank (3) and to receive a liquid from the flow pipe (4). The liquid ejection apparatus (1) comprises a stationary support assembly (6) configured to be attached to the flow pipe (4) that extends into the tank (3), and to receive a liquid from the flow pipe (4), a rotary head assembly (7) having at least one liquid ejection outlet (8) for ejecting the liquid on the interior surface (2) of the tank (3), and a drive system (9) for rotating the rotary head assembly (7). The drive system (9) includes an impeller (10) arranged in a flow path (11) of the liquid and the impeller (10) is configured to be rotated by the flow of liquid that passes the impeller (10). The drive system (9) is configured to cause rotation of the rotary head assembly (7) when there is a flow of liquid that passes the impeller (10), and the drive system (9) is configured to prevent rotation of the rotary head assembly (7) when there is a flow of gas, steam or air that passes the impeller (10).

IPC 8 full level  
**B05B 3/04** (2006.01)

CPC (source: EP)  
**B05B 1/005** (2013.01); **B05B 3/0445** (2013.01); **B05B 13/0636** (2013.01)

Citation (search report)  
• [XA] EP 3037175 A1 20160629 - ALFA LAVAL CORP AB [SE]  
• [A] DE 102004052794 B3 20051006 - TUCHENHAGEN GMBH [DE]  
• [A] US 2017120312 A1 20170504 - HOFFMEYER SCOTT [US], et al

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)  
**EP 4098368 A1 20221207**; WO 2022253598 A1 20221208

DOCDB simple family (application)  
**EP 21176900 A 20210531**; EP 2022063783 W 20220520