

Title (en)

System for cleaning tubes with sponge balls.

Title (de)

Vorrichtung zur Reinigung von Rohren mit Verformbaren Kugeln.

Title (fr)

Perfectionnements aux installations de nettoyage de tubes par circulation de boules spongieuses, notamment au plan de l'imprégnation en eau des boules.

Publication

EP 0631103 A3 19950809 (FR)

Application

EP 94401382 A 19940620

Priority

FR 9307547 A 19930622

Abstract (en)

[origin: EP0631103A2] In order to impregnate with water the sponge balls (1) intended for cleaning the tubes of a condenser, they are introduced into a tank (2) whose top part forms a chamber (10) separated from the remainder by a grid (9) through which the balls cannot pass, which chamber is connected to a jack (17) having a piston (19) and then, after the tank and the volumes communicating with it have been filled with water, all the valves giving access to this tank are closed, the piston is withdrawn from the jack, which expels the air from the balls in the chamber, and the whole is refilled with water so as to remove this air and to impregnate the balls with water. <IMAGE>

IPC 1-7

F28G 1/12

IPC 8 full level

F28G 1/12 (2006.01)

CPC (source: EP KR US)

B08B 9/00 (2013.01 - KR); **F28G 1/12** (2013.01 - EP US)

Citation (search report)

- [XA] DE 3125493 A1 19820422 - HITACHI LTD [JP]
- [DA] US 3872920 A 19750325 - HONMA YOSHIO, et al
- [A] US 5176204 A 19930105 - BEN-DOSA CHAIM [IL]

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CN110506162A; FR2825794A1; US11697139B2; WO2018149934A1

Designated contracting state (EPC)

BE DE ES GB IT LU NL SE

DOCDB simple family (publication)

EP 0631103 A2 19941228; EP 0631103 A3 19950809; EP 0631103 B1 19980506; CA 2126282 A1 19941223; CA 2126282 C 20020813; DE 69410018 D1 19980610; DE 69410018 T2 19981217; ES 2115173 T3 19980616; FR 2706788 A1 19941230; FR 2706788 B1 19950825; JP 2911022 B2 19990623; JP H0755389 A 19950303; KR 100246112 B1 20000401; KR 950000232 A 19950103; TW 295256 U 19970101; US 5482111 A 19960109

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