

Title (en)

SHOWERHEAD EMBODIMENTS WITH PISTON OR SPRING-LOADED PISTON DELIVERY OF A LIQUID WASHING AGENT

Title (de)

DUSCHKOPF-AUSFÜHRUNGEN MIT KOLBEN ODER FEDERBELASTETER KOLBENAUSGABE EINES FLÜSSIGEN WASCHMITTELS

Title (fr)

POMMEAU DE DOUCHE AVEC VARIANTES À PISTON ET RESSORT-PISTON D'ENVOI D'AGENT LAVANT LIQUIDE

Publication

EP 4238465 A1 20230906 (EN)

Application

EP 21940958 A 20210618

Priority

- RU 2021114338 A 20210520
- RU 2021000258 W 20210618

Abstract (en)

The proposed showerhead comprises a showerhead housing having a handle with a water delivery duct, and also a nozzle in the form of a head for separating a flow into jets at the end of the showerhead. Arranged inside the housing are a reservoir for a washing agent, a precisely adjustable valve for regulating the quantity of washing agent, and a filling duct for introducing gel from outside. Also arranged inside the housing are a switch for switching between a washing mode and a rinsing mode, and two check valves in the washing agent filling duct and a washing mixture delivery duct respectively. The separating head comprises, in addition to holes in the nozzle itself for allowing the passage of water, a smaller-sized mesh for mixing the washing mixture with air. In a piston delivery embodiment, the reservoir, which has a water delivery hole on the shower hose side, contains two rigidly interconnected pistons of different diameters, and the reservoir itself is formed from two volumes corresponding to the diameter of a large piston and a small piston respectively. In a spring-loaded piston delivery embodiment, the reservoir has a single diameter and, instead of a large piston, a spring is used in the reservoir, the moving end of which has a small piston attached thereto.

IPC 8 full level

A47K 3/28 (2006.01); **B05B 1/18** (2006.01)

CPC (source: EP RU)

A47K 3/28 (2013.01 - EP RU); **E03C 1/046** (2013.01 - EP); **B05B 1/18** (2013.01 - EP)

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 4238465 A1 20230906; RU 2770491 C1 20220418; WO 2022245241 A1 20221124

DOCDB simple family (application)

EP 21940958 A 20210618; RU 2021000258 W 20210618; RU 2021114338 A 20210520