

Title (en)

APPARATUS FOR CLEANING BEVERAGE PIPES, ESPECIALLY PIPES OF LICENSED PREMISES

Publication

**EP 0400422 B1 19930728 (DE)**

Application

**EP 90109484 A 19900518**

Priority

DE 3917488 A 19890530

Abstract (en)

[origin: US5072476A] An apparatus for cleaning pipelines for beverages and other flowable media has a four-way shuttle valve with two ports which are connectable to the ends of a pipeline. The shuttle of the valve is movable in the valve body between a first position in which an inlet for a fresh liquid cleaning agent is free to admit cleaning agent to one of the ports while the other port discharges spent cleaning agent into an outlet of the body, and a second position in which the direction of flow of cleaning agent through the pipeline is reversed. Movements of the shuttle between its positions are initiated by one or more spherical cleaning elements which are inserted into the pipeline and travel from one of the ports toward the other port or in the opposite direction. In order to prevent jamming of the shuttle in the one or the other position, fresh cleaning agent is admitted into the inlet of the valve body by way of a shutoff valve which is alternately closed and opened at frequent intervals to ensure repeated rises of pressure of the cleaning agent so that the cleaning agent can overcome static friction between the shuttle and the body of the four-way valve.

IPC 1-7

**B08B 9/04**

IPC 8 full level

**B08B 9/053** (2006.01); **B08B 9/027** (2006.01); **B08B 9/04** (2006.01)

CPC (source: EP US)

**B08B 9/051** (2013.01 - EP US); **B08B 9/057** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**US 5072476 A 19911217**; AT E91925 T1 19930815; BR 9002522 A 19910813; DD 294643 A5 19911010; DE 3917488 C1 19900607;  
DE 59002074 D1 19930902; DK 0400422 T3 19931115; EP 0400422 A1 19901205; EP 0400422 B1 19930728; ES 2044310 T3 19940101;  
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