

Title (en)

The air purging of a liquid dispensing system of a surface cleaner

Title (de)

Mit einer Entlüftungsvorrichtung versehene Flüssigkeitsabgabeeinrichtung für eine Bodenreinigungsmaschine

Title (fr)

Machine de nettoyage de surfaces munie d'un système d'alimentation de liquide avec purge de l'air

Publication

EP 1595486 A3 20080206 (EN)

Application

EP 05252872 A 20050510

Priority

US 56976104 P 20040510

Abstract (en)

[origin: EP1595486A2] A surface cleaner (110) includes a liquid dispensing system (100) comprising a fluid flow path (226) configured to receive a flow of liquid (such as 216), a pump (228), an air purging component (360), and a valve actuator (374). The pump is in line with the fluid flow path and is configured to drive the flow of liquid through the fluid flow path. The air purging component includes an inlet (362) in line with the fluid flow path, an outlet (364), an airflow path (366) connecting the inlet and the outlet, and a valve (368) in line with the airflow path. The valve includes an open position in which the airflow path is open between the inlet and the outlet and a closed position in which the airflow path is closed between the inlet and the outlet. The valve actuator is connected to the valve and is configured to bias the valve in the open position when air is detected in the fluid flow path.

IPC 8 full level

A47L 11/03 (2006.01); **A47L 11/292** (2006.01); **A47L 11/30** (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP)

A47L 11/03 (2013.01); **A47L 11/30** (2013.01); **A47L 11/4088** (2013.01); **A47L 11/4097** (2013.01)

Citation (search report)

- [A] US 6286180 B1 20010911 - KASPER GARY [US], et al
- [A] US 5920955 A 19990713 - BERFIELD ROBERT C [US]
- [A] US 5287590 A 19940222 - YONKERS ROBERT A [US], et al

Cited by

CN114652229A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

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