

Title (en)

Automatic purge filtration system for a dishwasher

Title (de)

Filtereinrichtung mit autmatischer Reinigungsvorrichtung für Geschirrspülmaschine

Title (fr)

Système de filtration à purge automatique pour machine à laver la vaisselle

Publication

EP 0842632 A3 19990203 (EN)

Application

EP 97309235 A 19971117

Priority

US 3118296 P 19961119

Abstract (en)

[origin: EP0842632A2] A dishwasher pump and automatic purge system which includes a wash impeller supported for rotation within a pump chamber wherein the pump chamber has a main outlet and a sample outlet port. Wash liquid pumped out through the main outlet is recirculated throughout the dishwasher interior wash chamber. A soil collector receives wash liquid through the sample outlet port. The soil collector includes a filter screen for returning filtered wash liquid back into the sump such that soils are retained in the soil collector. Pressure within the soil collector is sensed by a pressure sensor. The soil collector is purged by a drain pump when the pressure within the soil accumulator exceeds a predetermined limit level such that soils are cleared from the collector and the filter screen. When the pressure within the soil accumulator is reduced to below the predetermined limit level, the drain pump is deenergized. A control valve is provided for preventing fluid flow from the dishwasher sump to the drain pump during the purge operation while the wash pump is operating. The control valve is operated in response to fluid pressure created by the wash impeller. <IMAGE>

IPC 1-7

A47L 15/42

IPC 8 full level

A47L 15/42 (2006.01)

CPC (source: EP)

A47L 15/4204 (2013.01); **A47L 15/4225** (2013.01)

Citation (search report)

- [DYA] US 5165433 A 19921124 - MEYERS THEODORE F [US]
- [DY] US 4559959 A 19851224 - MEYERS THEODORE F [US]
- [DA] US 5429679 A 19950704 - YOUNG JR RAYMOND A [US]
- [A] EP 0454640 A1 19911030 - ELECTROLUX AB [SE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 350 (C - 0744) 27 July 1990 (1990-07-27)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 350 (C - 0744) 27 July 1990 (1990-07-27)

Cited by

WO2005058122A1; CN103415238A; CN109183913A; CN107970003A; US7610923B2; US8066821B2; WO2007066968A1; WO2007146656A1; US6832617B2; US8622065B2; US9339166B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0842632 A2 19980520; EP 0842632 A3 19990203; EP 0842632 B1 20060208; DE 69735228 D1 20060420; DE 69735228 T2 20061026

DOCDB simple family (application)

EP 97309235 A 19971117; DE 69735228 T 19971117