

Title (en)

Monitoring arrangement for the washing and rinsing cycles of dishwashing machines.

Title (de)

Überwachungseinrichtung für wasch- und spülprogrammgesteuerte Geschirrspülmaschine.

Title (fr)

Dispositif de contrôle des cycles de lavage et rinçage pour machines à laver la vaisselle.

Publication

EP 0534213 A1 19930331 (EN)

Application

EP 92115223 A 19920905

Priority

IT PN910062 A 19910926

Abstract (en)

Monitoring arrangement for the washing and rinsing cycles of an industrial-type dishwashing machine, comprising a wash tank (4), two pairs of spray arms (5, 6) coupled with the water supply and circulating circuit of the machine, measurement transducers (19) capable of detecting the rotating speed of the spray arms (5, 6) so as to signal their condition of operation through an indicator arrangement (22 or 27) that is connected with the electronic control unit (18) provided to control the sequence of the various operation cycles of the machine. The arrangement also comprises further measurement transducers (23) included in the water supply and circulating circuit of the machine so as to detect the flow rate of the washing liquor or rinsing water circulated therethrough, said transducers being connected with the control unit (18) so as to signal through said unit and said indicator arrangement (22 or 27) the flow of a given quantity of liquor through the conduits of said water circuit and, therefore, the regular or irregular operating condition of the same circuit. <IMAGE>

IPC 1-7

A47L 15/23; **A47L 15/46**

IPC 8 full level

A47L 15/23 (2006.01); **A47L 15/46** (2006.01)

CPC (source: EP)

A47L 15/0049 (2013.01); **A47L 15/23** (2013.01); **A47L 2401/14** (2013.01); **A47L 2401/24** (2013.01); **A47L 2401/30** (2013.01); **A47L 2501/26** (2013.01)

Citation (search report)

- [YD] EP 0053231 A1 19820609 - ZANUSSI ZELTRON INST [IT]
- [Y] EP 0118719 A1 19840919 - ZANUSSI A SPA INDUSTRIE [IT]
- [Y] DE 3732451 A1 19890420 - BOSCH SIEMENS HAUSGERAETE [DE]
- [Y] DE 3825502 A1 19900201 - LICENTIA GMBH [DE]

Cited by

EP0569733A1; EP1522251A3; EP4193901A1; GB2433023A; GB2433023B; EP1277431A1; EP2052665A1; US2014053873A1; DE102006007329B4; DE102005033110B4; CN110870739A; US7988791B2; WO2014031310A1; US6761179B2; WO0119229A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0534213 A1 19930331; IT 1253942 B 19950905; IT PN910062 A0 19910926; IT PN910062 A1 19930326

DOCDB simple family (application)

EP 92115223 A 19920905; IT PN910062 A 19910926