Title (en)

Dry-cleaning washing machine with infrared gas detector

Title (de)

Trockenreinigungsmaschine mit Infrarot-Gasdetektor

Title (fr)

Machine de lavage et nettoyage à sec dotée d'un détecteur de gaz infrarouge

Publication

EP 1959047 B1 20100120 (EN)

Application

EP 07102542 A 20070216

Priority

EP 07102542 A 20070216

Abstract (en)

[origin: EP1959047A1] Household dry-cleaning washing machine comprising a tub (10) wherein a perforated drum (12) to store clothes is rotating and a closed circuit (14) to let a solvent like decamethylcyclopentasiloxane (D5) circulating in an air stream across the drum. The circuit comprises a condenser (16), a heater (18) and a fan (20). At least a gas sensor (22) is provided to detect the solvent concentration in air, as well as to deliver a relevant data to an electronic device (38) to control the machine. The gas sensor (22) is an infrared device (IR) which is positioned outside the closed air circuit (14) and is connected therewith, in such a way that the gas solvent may be made to circulate along an optical path (28) wherein the solvent flows by absorbing IR energy.

IPC 8 full level

D06F 43/00 (2006.01); **D06F 34/14** (2020.01)

CPC (source: EP US)

D06F 34/14 (2020.02 - EP US); **D06F 43/00** (2013.01 - EP US); D06F 37/42 (2013.01 - EP US); D06F 58/50 (2020.02 - EP US); D06F 2103/28 (2020.02 - EP US); D06F 2105/58 (2020.02 - EP US)

Cited by

CN104746320A; US2012017466A1; US8601717B2; US8833095B2; US8528227B2

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1959047 A1 20080820; **EP 1959047 B1 20100120**; AT E455893 T1 20100215; DE 602007004433 D1 20100311; ES 2338475 T3 20100507; PL 1959047 T3 20100630; RU 2008105900 A 20090827; RU 2422570 C2 20110627

DOCDB simple family (application)

EP 07102542 A 20070216; AT 07102542 T 20070216; DE 602007004433 T 20070216; ES 07102542 T 20070216; PL 07102542 T 20070216; RU 2008105900 A 20080215