

Title (en)

Household appliance for treating soft goods with displacement sensor

Title (de)

Haushaltsgerät zur Behandlung von Textilien mit Wegaufnehmer

Title (fr)

Appareil électroménager permettant de traiter matériaux souples avec capteur de déplacement

Publication

EP 2319972 B2 20230802 (EN)

Application

EP 10196804 A 20070726

Priority

- EP 07825005 A 20070726
- IB 2007002119 W 20070726
- IT TO20060551 A 20060727

Abstract (en)

[origin: WO2008012651A2] The present invention relates to a household appliance for treating soft goods, in particular a laundry washing machine, comprising a swinging assembly elastically constrained to a frame by means of a suspension system comprising a pair of elements telescopically coupled together through two respective ends, wherein the first of said two ends comprises ferromagnetic material and the second end comprises a coil (9). The household appliance also comprises an electronic detection module (6) comprising an oscillator circuit (12), the oscillation frequency of which depends on the impedance of the coil (9), and processing means operationally connected to the oscillator circuit (12) and adapted to measure the oscillation frequency and to determine, as a function of said oscillation frequency, at least one piece of information which can be associated with said relative displacement.

IPC 8 full level

D06F 37/20 (2006.01)

CPC (source: EP US)

D06F 33/48 (2020.02 - EP US); **D06F 34/08** (2020.02 - EP US); **D06F 2103/26** (2020.02 - EP US)

Citation (opposition)

Opponent :

- JP H0679098 A 19940322 - MATSUSHITA ELECTRIC IND CO LTD
- JP H0526086 U 19930406
- JP H0531784 U 19930427 - SANYO ELECTRIC CO [JP]
- JP H06246087 A 19940906 - SANYO ELECTRIC CO
- JP H0584382 A 19930406 - SANYO ELECTRIC CO
- JP H05293300 A 19931109 - TOSHIBA CORP, et al
- JP H0564695 A 19930319 - SANYO ELECTRIC CO
- DE 19950747 A1 20010426 - SUSPA HOLDING GMBH [DE]
- JP 2002035466 A 20020205 - TOSHIBA CORP
- DE 2204325 A1 19730802 - SIEMENS ELEKTROGERAETE GMBH
- Sautter Dieter et al, "Lexikon Elektronik und Mikroelektronik" Dusseldorf: VDI-Verlag GmbH, 1993, S. 707,708

Cited by

DE102015204392A1; DE102015204392B4

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008012651 A2 20080131; WO 2008012651 A3 20080522; AT E506480 T1 20110515; DE 602007014092 D1 20110601; EP 2087160 A2 20090812; EP 2087160 B1 20110420; EP 2319972 A1 20110511; EP 2319972 B1 20131120; EP 2319972 B2 20230802; ES 2363817 T3 20110817; ES 2446670 T3 20140310; IT TO20060551 A1 20080127; PL 2087160 T3 20110930; PL 2319972 T3 20140930; SI 2087160 T1 20110831; SI 2319972 T1 20140430

DOCDB simple family (application)

IB 2007002119 W 20070726; AT 07825005 T 20070726; DE 602007014092 T 20070726; EP 07825005 A 20070726; EP 10196804 A 20070726; ES 07825005 T 20070726; ES 10196804 T 20070726; IT TO20060551 A 20060727; PL 07825005 T 20070726; PL 10196804 T 20070726; SI 200730659 T 20070726; SI 200731419 T 20070726