

## Title (en)

TURBIDITY SENSOR FOR A WASHING MACHINE, IN PARTICULAR FOR HOUSEHOLD USE, AND RELATED WASHING MACHINE INCLUDING SAID SENSOR

## Title (de)

TRÜBUNGSSENSOR FÜR EINE WASCHMASCHINE, INSBESONDERE FÜR DEN HAUSHaltsBEREICH, UND ZUGEHÖRIGE WASCHMASCHINE MIT DIESEM SENSOR

## Title (fr)

CAPTEUR DE TURBIDITÉ POUR UNE MACHINE À LAVER, EN PARTICULIER À USAGE DOMESTIQUE, ET MACHINE À LAVER CORRESPONDANTE COMPRENANT CE CAPTEUR

## Publication

**EP 3712317 A1 20200923 (EN)**

## Application

**EP 20162535 A 20200311**

## Priority

IT 201900004153 A 20190321

## Abstract (en)

The present invention relates to a turbidity sensor (1) for a washing machine, in particular for household use, said sensor (1) comprising:- an enclosure (10) adapted to be positioned in the washing machine in such a way that it is at least partially surrounded by a washing liquid, said enclosure (10) being provided with a first housing (11) and a second housing (12);- a first element (21) emitting/receiving an electromagnetic radiation, housed in the first housing (11) of the enclosure (10);- a second element (22) receiving/emitting an electromagnetic radiation, housed in the second housing (12) of the enclosure (10), wherein the first housing (11) and the second housing (12) are at least partially made of transparent material to allow said electromagnetic radiation to be transmitted/received by the first element (21), propagate between the first housing (11) and the second housing (12) externally to said enclosure (10), and be received/transmitted by the second element (12) for the purpose of detecting the degree of turbidity of the washing liquid that surrounds at least partially said enclosure (10) and that is located between the first housing (11) and the second housing (12). The peculiar feature of the present invention consists in the fact that the first housing (11) and the second housing (12) develop substantially perpendicular to a longitudinal axis (X-X) of the enclosure (10) and in such a way as to face towards each other, in particular the enclosure (10) being designed to comprise a recess (13) between said first housing (11) and second housing (12).

## IPC 8 full level

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## CPC (source: EP)

**A47L 15/4297** (2013.01); **D06F 34/22** (2020.02)

## Citation (applicant)

- EP 1335060 A1 20030813 - ZANGENSTEIN ELEKTRO [DE]
- EP 2004031 A1 20081224 - MARQUARDT GMBH [DE]

## Citation (search report)

- [XA] CN 208537395 U 20190222 - FOSHAN CHUANDONG MAGNETOELECTRICITY CO LTD
- [XA] WO 2017002032 A1 20170105 - BITRON SPA [IT]
- [XA] EP 1674837 A1 20060628 - CANDY SPA [IT]

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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