

Title (en)  
INDUSTRIAL VACUUM CLEANER FOR LIQUID SUBSTANCES WITH DETECTION DEVICE OF THE LEVEL OF FILLING OF ITS TANK

Title (de)  
INDUSTRIELLER STAUBSAUGER FÜR FLÜSSIGE SUBSTANZEN MIT DETEKTIONSEINRICHTUNG DES FÜLLSTANDES SEINES BEHÄLTERS

Title (fr)  
ASPIRATEUR INDUSTRIEL POUR SUBSTANCES LIQUIDES AVEC UN DISPOSITIF DE DÉTECTION DU NIVEAU DE REMPLISSAGE DE SON RÉSERVOIR

Publication  
**EP 3213665 B1 20181107 (EN)**

Application  
**EP 17158235 A 20170227**

Priority  
IT UB20161215 A 20160301

Abstract (en)  
[origin: EP3213665A1] Industrial vacuum cleaner (1) for liquid substances with detection device (2) of the level of filling of its collection tank. Said vacuum cleaner provided with a vacuum turbine (3) comprises: - a collection tank (4) of the vacuumed liquid products (L); - an electrical control unit (5) for controlling the various functions; - a detection device (2) of the level of liquid reached in said tank (4), comprising a housing (6) obtained in said tank (4), a float (7) and a micro switch (8), wherein said float (7), rising as a result of the increase in the level of liquid (L), cooperates with said micro switch (8) to change its status and generate a control signal, manageable by said electrical control unit (5), to stop said vacuum turbine (3) upon reaching a predefined maximum level of filling; - transmission means of said control signal from said detection device (2) to said electrical control unit (5). Said detection device (2) comprises a circuit board comprising an emitter (9) of an electromagnetic wave control signal, said control signal being generated as a result of the change in status of said micro switch (8). Said electrical control unit (5) comprises a receiver (10) adapted to receive said electromagnetic wave control signal, and said transmission means of said control signal are of wireless type.

IPC 8 full level  
**A47L 7/00** (2006.01)

CPC (source: EP)  
**A47L 7/0028** (2013.01)

Cited by  
DE102019121604A1; DE102019121608B4; DE102019121604B4; DE102019121607B4; EP3772314A1; US11172801B2; US12004705B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3213665 A1 20170906; EP 3213665 B1 20181107**; ES 2709939 T3 20190422; IT UB20161215 A1 20170901

DOCDB simple family (application)  
**EP 17158235 A 20170227**; ES 17158235 T 20170227; IT UB20161215 A 20160301