

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 A1 20170906 (EN)

Application
EP 17158235 A 20170227

Priority
IT UB20161215 A 20160301

Abstract (en)
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)

Citation (search report)

- [A] WO 0042893 A2 20000727 - SHOP VAC CORP [US]
- [A] US 2006260088 A1 20061123 - NAM HYEUN S [KR], et al
- [A] US 5465455 A 19951114 - ALLEN HAROLD [US]

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

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