

Title (en)

TANKER EQUIPMENT FOR COLLECTING DRY MATERIAL AND WET MATERIAL

Title (de)

TANKERAUSRÜSTUNG ZUM SAMMELN VON TROCKENMATERIAL UND NASSMATERIAL

Title (fr)

EQUIPEMENT CITERNE POUR LE RECUEIL DES MATIERES SECHES ET DES MATIERES HUMIDES

Publication

EP 3800294 A1 20210407 (EN)

Application

EP 20199316 A 20200930

Priority

IT 201900017666 A 20191001

Abstract (en)

The present invention relates to a tanker-type equipment for collecting wet material or dry material. The equipment (1) comprises a mobile vehicle (3) comprising a frame (4) on which a collection tank (2) is installed, said collection tank (2) comprising at least a first compartment (11) for collecting material. The equipment further comprises a vacuum assembly (50) for generating a vacuum at least inside said first compartment (11) and a suction line which brings said vacuum assembly (50) into communication with said first compartment (11) so that, following the activation of said vacuum assembly (50), an air flow coming from said first compartment (11) and directed to said vacuum assembly (50) is drawn through said suction line (15). According to the invention, the equipment comprises a washing assembly (30) for dispersing water in said air flow coming from said first compartment (11) so as to moisten any solid particles contained in said air flow, said washing assembly (30) being activated at least during the collection of dry material. The equipment (1) further comprises a first cyclone filter (21) and a second cyclone filter (22) arranged in series along said suction line (15), wherein said second cyclone (22) is arranged between said first cyclone filter (21) and said first compartment (22) and wherein the solid particles and water dispersed by said washing assembly (30) are separated from said air flow at least in said first cyclone (21).

IPC 8 full level

E01H 1/08 (2006.01)

CPC (source: EP)

E01H 1/0836 (2013.01)

Citation (applicant)

- EP 3106611 A1 20161221 - JUROP S P A [IT]
- EP 3106610 A1 20161221 - JUROP S P A [IT]
- EP 3332123 A1 20180613 - JUROP S P A [IT]

Citation (search report)

- [Y] EP 3069792 A1 20160921 - KOKS GROUP B V [NL]
- [Y] US 1369118 A 19210222 - TAYLOR MCDUGALL, et al
- [A] US 3959010 A 19760525 - THOMPSON DAVID L, et al
- [A] DE 102004038474 B3 20051229 - FRITZ SPERBER GMBH & CO [DE]

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 3800294 A1 20210407; EP 3800294 B1 20230531

DOCDB simple family (application)

EP 20199316 A 20200930