

Title (en)
DUST EXTRACTOR COMPRISING A DUST CYCLONE CONTAINER ADJACENT TO A FINE FILTER SECTION WITH A BATTERY POWERED BLOWER/FAN MOTOR

Title (de)
STAUBABSAUGVORRICHTUNG MIT EINEM STAUBZYKLONBEHÄLTER NEBEN EINEM FEINFILTERABSCHNITT MIT EINEM BATTERIEBETRIEBENEN GEBLÄSE-/GEBLÄSEMOTOR

Title (fr)
EXTRACTEUR DE POUSSIÈRE COMPRENANT UN RÉCIPIENT DE CYCLONE À POUSSIÈRE ADJACENT À UNE SECTION DE FILTRE FIN AVEC MOTEUR DE VENTILATEUR/SOUFFLANTE ALIMENTÉ PAR BATTERIE

Publication
EP 4164458 A1 20230419 (EN)

Application
EP 21821124 A 20210604

Priority
• SE 2050697 A 20200611
• SE 2050865 A 20200709
• SE 2050985 A 20200826
• SE 2050986 A 20200826
• SE 2050987 A 20200826
• SE 2021050535 W 20210604

Abstract (en)
[origin: US2023200605A1] The present disclosure relates to dust extractor (1) comprising a dust cyclone container (3) having a contaminated portion downstream an air inlet (2) and a clean portion downstream the contaminated portion, and a dust separating part (9) there between. The contaminated portion is provided with a dust container (59). The dust extractor (1) comprises a fine filter section (12) arranged adjacent to the dust cyclone container (3) and having a contaminated section and a clean section downstream the contaminated section, and a fine filter part (15) is adapted to be provided between the contaminated section and the clean section. An air channel (47) runs between a clean side of the dust cyclone container (3) and a contaminated side of the fine filter part (15). The dust extractor also comprises a mobility section (66) comprising wheels and a blower/fan motor (10) for drawing air from the air inlet (2) through the dust extractor. The dust cyclone container (3) has a center axis (48) along its longitudinal extension, and the fine filter part (15) is provided at a radial distance from the dust cyclone container (3) along a plane (P) perpendicular to the center axis (48) of the dust cyclone container (3), the plane (P) coinciding with the dust cyclone container (3) and a portion of the fine filter part (15). The blower/fan motor (10) is adapted to be powered at least partly by at least one onboard battery (61), and preferably two batteries (61), wherein the at least one battery (61) is arranged to be received in at least one battery slot (62) provided in the fine filter section (12) or in the mobility section (66).

IPC 8 full level
A47L 9/10 (2006.01); **B01D 50/00** (2022.01)

CPC (source: EP US)
A47L 7/0095 (2013.01 - EP); **A47L 9/009** (2013.01 - EP); **A47L 9/12** (2013.01 - US); **A47L 9/127** (2013.01 - EP); **A47L 9/16** (2013.01 - EP); **A47L 9/1608** (2013.01 - US); **A47L 9/20** (2013.01 - EP); **A47L 9/2884** (2013.01 - EP US); **B01D 46/2411** (2013.01 - EP); **B01D 50/20** (2022.01 - EP); **B01D 2273/30** (2013.01 - EP)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 2023200605 A1 20230629; AU 2021287625 A1 20230202; CN 115916017 A 20230404; EP 4164458 A1 20230419; EP 4164458 A4 20241016

DOCDB simple family (application)
US 202117926723 A 20210604; AU 2021287625 A 20210604; CN 202180039281 A 20210604; EP 21821124 A 20210604