

Title (en)

GROUND CLEANING APPARATUS HAVING FRONT DUST COLLECTION FUNCTION

Title (de)

BODENREINIGUNGSVORRICHTUNG MIT FRONTSTAUBSAMMELFUNKTION

Title (fr)

APPAREIL DE NETTOYAGE DE SOL AYANT UNE FONCTION DE COLLECTE DE POUSSIÈRE AVANT

Publication

**EP 4324375 A1 20240221 (EN)**

Application

**EP 22787633 A 20220415**

Priority

- CN 202120785763 U 20210416
- CN 2022087085 W 20220415

Abstract (en)

Disclosed is a ground cleaning apparatus having a front dust collection function, including a cleaning device, a water storage device and a dust collection device. The cleaning device includes a rolling brush (1), a washing assembly (2) and a water retaining housing (3). The rolling brush (1) and the washing assembly (2) are both mounted in the water retaining housing (3). The rolling brush (1) is a rotatable water-absorbing rolling brush. The washing assembly (2) is arranged on one side of the rolling brush (1). The washing assembly (2) includes a conveying rod housing (22) and a threaded conveying rod (21) rotatably mounted in the conveying rod housing (22). The conveying rod housing (22) is provided with a dirt outlet (221) in the rotary conveying direction of the threaded conveying rod (21). The conveying rod housing (22) is provided with an opening (222). The water retaining housing (3) is arranged in a sealing fit with the conveying rod housing (22). The water retaining housing (3) and the conveying rod housing (22) can prevent water and dirt from spilling out. The water storage device is provided with a dirty water tank (71). The dust collection device is provided with a dust suction port (81). The dust suction port (81) is arranged on a front side of the rolling brush (1). The dust collection device sucks dirt on the ground by way of the dust suction port (81). Dry suction is performed first, and wet mopping is then performed, such that the service life of the cleaning device is prolonged, and the cleaning effect is better. An access port of a dust collection cover can be flexibly adapted to the dust collection device.

IPC 8 full level

**A47L 11/292** (2006.01)

CPC (source: CN EP)

**A47L 5/225** (2013.01 - EP); **A47L 11/24** (2013.01 - CN); **A47L 11/302** (2013.01 - CN EP); **A47L 11/40** (2013.01 - CN); **A47L 11/4013** (2013.01 - CN); **A47L 11/4016** (2013.01 - CN EP); **A47L 11/4041** (2013.01 - CN EP); **A47L 11/4069** (2013.01 - EP); **A47L 11/4083** (2013.01 - CN EP); **A47L 11/4094** (2013.01 - CN EP)

Designated contracting state (EPC)

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Designated validation state (EPC)

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DOCDB simple family (application)

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