

Title (en)
FLOOR CLEANING MACHINE

Title (de)
BODENREINIGUNGSMASCHINE

Title (fr)
MACHINE DE NETTOYAGE DU SOL

Publication
EP 4111931 B1 20231108 (DE)

Application
EP 22181907 A 20220629

Priority
DE 102021116683 A 20210629

Abstract (en)
[origin: US2022409002A1] A floor cleaning machine having a cleaning element arrangement with inner and outer cleaning elements that include inner and outer cleaning bodies, respectively, that extend jointly in the cleaning body plane and have first and second receiving openings, respectively. The inner and outer cleaning elements extend from the inner and outer cleaning bodies, respectively, away from the cleaning body plane to one side thereof. The inner cleaning body is arranged in the second receiving opening. The output shaft extends with an output shaft section into both the first and second receiving openings. First and second eccentric elements are attached to the output shaft section and to the inner and outer cleaning bodies, respectively, so that when the output shaft is rotated, the inner and outer cleaning bodies perform eccentric movements that are phase-shifted with respect to one another.

IPC 8 full level
A47L 11/284 (2006.01); **A47L 11/40** (2006.01)

CPC (source: CN EP US)
A46B 9/025 (2013.01 - US); **A46B 13/008** (2013.01 - US); **A46B 13/02** (2013.01 - US); **A47L 11/284** (2013.01 - EP); **A47L 11/30** (2013.01 - CN); **A47L 11/305** (2013.01 - US); **A47L 11/40** (2013.01 - CN); **A47L 11/4036** (2013.01 - CN); **A47L 11/4038** (2013.01 - US); **A47L 11/4061** (2013.01 - CN); **A47L 11/4066** (2013.01 - US); **A47L 11/4069** (2013.01 - CN EP US); **A47L 11/4072** (2013.01 - US); **A47L 11/4075** (2013.01 - CN US); **A47L 11/4083** (2013.01 - US); **A47L 11/4088** (2013.01 - US); **A46B 2200/3033** (2013.01 - US)

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

DOCDB simple family (publication)
EP 4111931 A1 20230104; **EP 4111931 B1 20231108**; **EP 4111931 C0 20231108**; CN 115530693 A 20221230; DE 102021116683 A1 20221229; DE 102021116683 B4 20230323; ES 2972223 T3 20240611; US 2022409002 A1 20221229

DOCDB simple family (application)
EP 22181907 A 20220629; CN 202210704909 A 20220621; DE 102021116683 A 20210629; ES 22181907 T 20220629; US 202217851797 A 20220628