

Title (en)  
FLOOR-CLEANING MACHINE

Title (de)  
BODENREINIGUNGSVORRICHTUNG

Title (fr)  
MACHINE DE NETTOYAGE DE SOL

Publication  
**EP 4373375 A1 20240529 (DE)**

Application  
**EP 22744771 A 20220722**

Priority  
• DE 102021119016 A 20210722  
• EP 2022070598 W 20220722

Abstract (en)  
[origin: WO2023002009A1] The invention relates to a floor-cleaning machine (10; 110; 210; 310; 410), preferably a floor-cleaning scrubber, particularly preferably a floor-cleaning scrubber with suction action, comprising: - a floor unit (12; 112; 212; 312; 412); - a tool (24, 26; 124, 126), which is assigned to the floor unit (12; 112; 212; 312; 412) and, in an operating state, is in contact with a floor surface (158); - a guide part (14; 114; 214; 314; 414) for guiding the floor-cleaning machine (10; 110; 210; 310; 410); - a joint arrangement (16; 116) with a first pivot joint (18, 118) for pivoting the guide part (14; 114; 214; 314; 414) relative to the floor unit (12; 112; 212; 312; 412) about a first pivot axis (A); and - a spring member (160; 260; 360; 460) for generating a spring force between the floor unit (12; 112; 212; 312; 412) and the guide part (14; 114; 214; 314; 414), wherein the first pivot joint (18, 118) has a neutral position, characterized in that the spring member (160; 260; 360; 460) is operatively connected to the floor unit (12; 112; 212; 312; 412) and the guide part (14; 114; 214; 314; 414) such that, during the pivoting operation out of the neutral position, in a first pivoting direction (S1), to a deflected position, an erecting moment about the first pivot axis (A) in the direction of the neutral position, this moment acting on the guide part (14; 114; 214; 314; 414) and resulting from the spring force, increases in a first angle range and decreases in a following, second angle range.

IPC 8 full level  
**A47L 11/22** (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP KR)  
**A47L 11/22** (2013.01 - EP); **A47L 11/302** (2013.01 - KR); **A47L 11/4036** (2013.01 - KR); **A47L 11/4075** (2013.01 - EP KR)

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)  
**DE 102021119016 A1 20230126**; AU 2022315553 A1 20240208; CN 117979876 A 20240503; EP 4373375 A1 20240529; JP 2024525909 A 20240712; KR 20240038032 A 20240322; WO 2023002009 A1 20230126

DOCDB simple family (application)  
**DE 102021119016 A 20210722**; AU 2022315553 A 20220722; CN 202280063844 A 20220722; EP 2022070598 W 20220722; EP 22744771 A 20220722; JP 2024503687 A 20220722; KR 20247005825 A 20220722