

Title (en)
SELF-PROPELLED VACUUM CLEANER

Title (de)
SELBSTANGETRIEBENER STAUBSAUGER

Title (fr)
ASPIRATEUR AUTOPROPULSÉ

Publication
EP 3679847 A1 20200715 (EN)

Application
EP 17923582 A 20170904

Priority
JP 2017031740 W 20170904

Abstract (en)
An autonomous vacuum cleaner is provided which can clean efficiently around a vacuum cleaner body. An autonomous vacuum cleaner (1) includes a vacuum cleaner body (2) having a wheel (121) for travelling autonomously, a surroundings sensor (32) for detecting an obstacle around the vacuum cleaner body (2), a pivoting cleaner (3) that can clean around the vacuum cleaner body (2), and a controller (5) that controls the surroundings sensor (32) and the pivoting cleaner (3). The pivoting cleaner (3) includes an arm (21) that protrudes outward from the vacuum cleaner body (2), a motor (22) that drives the arm (21), and a load sensor (23) that detects a load acting on the arm (21) from the outside. The motor (22) is controlled and driven on the basis of the presence or absence of an obstacle detected by the surroundings sensor (32), and travel of the vacuum cleaner body (2) is controlled on the basis of a load detected by the load sensor (23).

IPC 8 full level
A47L 9/28 (2006.01)

CPC (source: EP US)
A47L 9/2805 (2013.01 - EP US); **A47L 9/2852** (2013.01 - EP); **A47L 2201/04** (2013.01 - EP US)

Cited by
US11648898B2

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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3679847 A1 20200715; **EP 3679847 A4 20210310**; CN 111093451 A 20200501; CN 111093451 B 20211102; JP 6935943 B2 20210915; JP WO2019043937 A1 20200409; US 2020405110 A1 20201231; WO 2019043937 A1 20190307

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