

Title (en)
VACUUM CLEANER

Title (de)
STAUBSAUGER

Title (fr)
ASPIRATEUR

Publication
EP 4005456 A4 20231011 (EN)

Application
EP 20848212 A 20200129

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• KR 20190093483 A 20190731
• KR 20190093482 A 20190731
• KR 20190176625 A 20191227
• KR 2020001366 W 20200129

Abstract (en)
[origin: EP4005456A1] Disclosed is a cleaner includes a body forming an appearance or an exterior, a mop module, and a sweep module. The mop module is disposed at a lower side of the body, supports the body, and includes a pair of spin mops for rotating and mopping a floor. The sweep module is disposed at the body and sweeps up a foreign material on the floor by a rotation of an agitator. The sweep module includes a dust housing, the agitator, and a wheel assembly. The dust housing includes a collection opening surface opened to the floor and a storage space where the foreign material collected through the collection opening is stored. The agitator is exposed at the collection opening surface, is rotatably assembled to the dust housing, and moves the foreign material on the floor to the storage space when rotating. The wheel assembly is assembled to the dust housing and is in contact with the floor to support the dust housing. The wheel assembly includes a wheel body assembled to the dusting housing to be movable in a vertical direction, a wheel assembled to a lower side of the wheel body and in contact with the floor to support the wheel body, a wheel elastic member disposed between the dust housing and the wheel body and providing elastic force to the wheel body to move the wheel body, and a cliff sensor disposed at the body and detecting a movement of the wheel body when the wheel body is moved. According to the present disclosure, the wheel assembly not only supports the body but also is used as a detection factor of the cliff sensor that detects a cliff, and thus, a number of elements or components can be reduced by function integration.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [A] US 2019038106 A1 20190207 - JANG JAEWON [KR], et al
• [A] EP 3440980 A1 20190213 - LG ELECTRONICS INC [KR]
• See references of WO 2021020680A1

Designated contracting state (EPC)
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