

Title (en)
ELECTRIC VACUUM CLEANER

Title (de)
ELEKTRISCHER STAUBSAUGER

Title (fr)
ASPIRATEUR ÉLECTRIQUE

Publication
EP 3677160 A4 20210526 (EN)

Application
EP 18850568 A 20180830

Priority
• JP 2017167648 A 20170831
• JP 2018032127 W 20180830

Abstract (en)
[origin: EP3677160A1] Provided is a vacuum cleaner (11) capable of indicating a remaining amount of a secondary battery (16) and other information at a position for a user to easily recognize, without the increased number of lines of wiring passing through a hose body (25). A vacuum cleaner (11) includes an air path element (20) and a control unit (21). The air path element (20) includes a hose body (25), a connection part (26), a hand operation part (27), a wiring (30) and a lamp (29). The wiring (30) is disposed in the hose body (25) from the connection part (26) to at least the hand operation part (27). The lamp (29) is disposed on the hand operation part (27), and is capable of performing indication in a plurality of types of indication modes. The control unit (21) controls the lamp (29) to perform indication in different indication modes according to previously-set conditions with respect to the vacuum cleaner (11). In the case where the remaining amount of the secondary battery (16) is lower than a predetermined level, the control unit (21) controls the lamp (29) in response to the remaining amount of the secondary battery (16) being lower than the predetermined level, even if other condition is satisfied.

IPC 8 full level
A47L 9/28 (2006.01); **A47L 9/24** (2006.01)

CPC (source: EP)
A47L 9/248 (2013.01); **A47L 9/2805** (2013.01); **A47L 9/2857** (2013.01); **A47L 9/2878** (2013.01); **A47L 9/2884** (2013.01); **A47L 9/327** (2013.01)

Citation (search report)
• [XY] US 2016088992 A1 20160331 - LEE CHANGHOON [KR], et al
• [Y] JP 2005052680 A 20050303 - MATSUSHITA ELECTRIC IND CO LTD
• [A] EP 1260170 A1 20021127 - TOSHIBA TEC KK [JP]
• [A] US 2010088843 A1 20100415 - REED BRETT [US], et al
• See also references of WO 2019044976A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3677160 A1 20200708; **EP 3677160 A4 20210526**; CN 111050618 A 20200421; JP 2019042050 A 20190322; JP 7007838 B2 20220210; WO 2019044976 A1 20190307

DOCDB simple family (application)
EP 18850568 A 20180830; CN 201880055699 A 20180830; JP 2017167648 A 20170831; JP 2018032127 W 20180830