

Title (en)  
PORTABLE HARD SURFACE CLEANING DEVICE

Title (de)  
TRAGBARES HARTFLÄCHENREINIGUNGSGERÄT

Title (fr)  
APPAREIL DE NETTOYAGE DE SURFACES DURES PORTABLE

Publication  
**EP 3021723 B2 20200422 (DE)**

Application  
**EP 13737628 A 20130718**

Priority  
EP 2013065242 W 20130718

Abstract (en)  
[origin: WO2015007325A1] The invention relates to a portable hard-surface cleaning device (10) for pulling off and suctioning liquid from a hard surface, in particular from a window pane, comprising a suction nozzle (136) having a suction opening (140), on which suction opening at least one pull-off lip (142, 144) is arranged, a drive chamber (19), in which a suction unit (22) is arranged, which has a suction turbine (24) and an electric motor (26) and which has a flow connection to the suction nozzle (136) in order to suck in a liquid-air mixture from the suction opening (140), a separation chamber (128), which is arranged in the flow path between the suction nozzle (136) and the suction unit (22) and in which a separating apparatus (130, 132) for separating liquid from the liquid-air mixture is arranged, and a dirty-liquid receptacle (18) for receiving the separated liquid. In order to be able to produce the hard-surface cleaning device (10) more economically, a motor housing (38) is arranged in the drive chamber (19), which motor housing surrounds the electric motor (26) and at least one rechargeable battery (48) and battery-monitoring electronics (49) in a spray-water-tight manner and which motor housing forms a lower housing part (32) of a turbine housing (28) arranged in the drive chamber (19), which lower housing part is supported by a support wall (64, 66), a turbine wheel (34) being rotatably supported in the turbine housing.

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CPC (source: EP)  
**A47L 1/05** (2013.01); **A47L 7/0019** (2013.01)

Citation (opposition)  
Opponent :

- EP 2230980 B1 20121205 - KAERCHER GMBH & CO KG ALFRED [DE]
- EP 2227126 B1 20121205 - KAERCHER GMBH & CO KG ALFRED [DE]
- CN 103082935 A 20130508 - ZHUOLI ELECTRICAL APPLIANCE GROUP CO LTD
- CN 103099582 A 20130515 - ZHONGSHAN JINSHUN HOUSEHOLD WARES CO LTD, et al
- CN 102920398 A 20130213 - LIU SHIJUN

Cited by  
EP3763267A1; EP3763265A1

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