

Title (en)
Vacuum cleaner turbo brush

Title (de)
Staubsauger-Turbobürste

Title (fr)
Brosse à turbine d'aspirateur

Publication
EP 2514347 A1 20121024 (DE)

Application
EP 11401062 A 20110418

Priority
EP 11401062 A 20110418

Abstract (en)
The brush (10) has an axial-inflow impulse turbine placed in a secondary airstream area of a vacuum cleaner. A guide stage includes guide surfaces, where each guide surface with a cross section includes a circular arc followed by a straight section along direction of incident flow. A bearing housing surrounds a turbine shaft, where the bearing housing forms a transition and the guide stage in a region of an impeller. The bearing housing provides a casing for the turbine shaft, and includes bearing elements that support the turbine shaft.

Abstract (de)
Es wird eine Staubsauger-Turbobürste (10) für einen Staubsauger angegeben, die zum Antrieb einer Borstenwalze (28) eine Turbine (24) aufweist, wobei die Turbine (24) in einem Nebenluftkanal (22) und damit im Betrieb in einem Nebenluftstrom angeordnet und als Gleichdruckturbine, insbesondere als axial angeströmte Gleichdruckturbine ausgeführt ist.

IPC 8 full level
A47L 9/04 (2006.01)

CPC (source: EP US)
A47L 9/0416 (2013.01 - EP US)

Citation (applicant)
DE 3414862 C2 19900419

Citation (search report)
• [X] GB 2393383 A 20040331 - DYSON LTD [GB]
• [X] WO 2006080383 A1 20060803 - TOSHIBA TEC KK [JP], et al
• [X] JP S5442855 A 19790405 - MATSUSHITA ELECTRIC IND CO LTD
• [X] GB 2320421 A 19980624 - DAEWOO ELECTRONICS CO LTD [KR]

Cited by
DE102015105060A1; DE102015109797A1; DE102015105060B4

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

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 11401062 A 20110418; US 201213448548 A 20120417