

Title (en)  
Portable pool cleaner

Title (de)  
Tragbarer Schwimmbeckenreiniger

Title (fr)  
Nettoyeur de piscine portable

Publication  
**EP 2987925 A1 20160224 (EN)**

Application  
**EP 14181520 A 20140820**

Priority  
EP 14181520 A 20140820

Abstract (en)  
The present portable pool cleaner (100) is provided with an improved annular impeller (200), which facilitates the possible use of a fore receptacle (102) without a filter bag, operating as an eddy trap for large debris, and also facilitates having an aft receptacle (303) incorporating a filter bag (302) or direct connection to in pool filtration systems. The annular impeller (200) is able to effectively limit object size passing to the next stage, within impeding or striking objections passing through the inside gap in the annular impeller (200). The impeller duct/annular shape, with internal spiral blades (202), forms a through hole for the light sewage to more easily pass, while heavier particles in the sewage are trapped. The optional fore and aft receptacles (102, 303) may be detachable to facilitate cleaning, replacement and access to the impeller (200) for cleaning or replacement. The handheld design facilitates underwater use.

IPC 8 full level  
**E04H 4/16** (2006.01)

CPC (source: EP)  
**E04H 4/1636** (2013.01)

Citation (search report)  
• [A] US 8281441 B1 20121009 - ERLICH GUY [US], et al  
• [A] US 2014076789 A1 20140320 - SHLOMI-SHLOMI IDAN [IL], et al  
• [A] WO 2009007921 A2 20090115 - ALLERS DU PLOOY EUDORE [ZA], et al

Cited by  
CN106758772A; CN110397313A

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)  
**EP 2987925 A1 20160224; EP 2987925 B1 20160921**; ES 2608563 T3 20170412; PT 2987925 T 20161123

DOCDB simple family (application)  
**EP 14181520 A 20140820**; ES 14181520 T 20140820; PT 14181520 T 20140820