

Title (en)  
Cleaning implement

Title (de)  
Reinigungsgerät

Title (fr)  
Outil de nettoyage

Publication  
**EP 1552780 A3 20090218 (DE)**

Application  
**EP 04029378 A 20041210**

Priority  
• DE 10358467 A 20031213  
• DE 202004002732 U 20040219

Abstract (en)  
[origin: EP1552780A2] The device (1) can be operated with a short handle (3) or with an extension (5) joined to the handle (3) with an adapter piece (4). A cleaning element (7), which can be additionally covered with a cloth is attached to the lower end of the short handle (3). The handle (3) is connected to a housing accommodating a reservoir (9), a pump (8), and a nozzle (10) for the distribution of water or a cleansing fluid directly on the surface to be cleaned. Both handles (3, 6) are fitted with levers (11, 13) acting on the spraying unit (8, 9, 10).

IPC 8 full level  
**A47L 1/08** (2006.01); **A47L 13/22** (2006.01)

CPC (source: EP)  
**A47L 1/08** (2013.01); **A47L 13/22** (2013.01)

Citation (search report)  
• [X] DE 1934380 A1 19700122 - AGRIMI GEB MIANI  
• [XA] US 6497525 B1 20021224 - HUANG CHIU-YUN [TW]  
• [XA] DE 20219300 U1 20030327 - KRANZ HORST [DE]  
• [XA] FR 2218867 A2 19740920 - VAP CLEAN SA [CH]  
• [E] WO 2006049499 A2 20060511 - AFA POLYTEK BV [NL], et al  
• [PXPA] US 2004223803 A1 20041111 - FAHY CATHAL L [US], et al

Cited by  
CN103118580A; CN108937750A; CN108061022A; WO2010017657A1; WO2009026203A1; WO2012025734A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
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