

Title (en)  
FLOOR CLEANING APPLIANCE

Title (de)  
BODENREINIGUNGSGERÄT

Title (fr)  
APPAREIL DE NETTOYAGE POUR PLANCHERS

Publication  
**EP 0647116 B1 19970716 (DE)**

Application  
**EP 93909861 A 19930429**

Priority  
EP 9301039 W 19930429

Abstract (en)  
[origin: WO9424923A1] A floor cleaning appliance or the like has a handle attached by a cardan or half-cardan joint to the actual cleaning, scrubbing, wiping or other arrangement. A liftable hoop (10) articulated to the cleaning device (R) engages a projection (St), a screw or a pin on the handle or snaps into a horizontal groove of the handle.

IPC 1-7  
**A47L 13/24**; **B25G 3/38**

IPC 8 full level  
**A47L 13/24** (2006.01); **B25G 3/38** (2006.01)

CPC (source: EP US)  
**A47L 13/24** (2013.01 - EP US); **B25G 3/38** (2013.01 - EP US)

Designated contracting state (EPC)  
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**WO 9424923 A1 19941110**; DE 59306941 D1 19970821; EP 0647116 A1 19950412; EP 0647116 B1 19970716; US 5575033 A 19961119

DOCDB simple family (application)  
**EP 9301039 W 19930429**; DE 59306941 T 19930429; EP 93909861 A 19930429; US 35637194 A 19941227