

Title (en)  
Flexible cleaning tool

Title (de)  
Biegbares Reinigungswerkzeug

Title (fr)  
Outil de nettoyage flexible

Publication  
**EP 2233055 A3 20130424 (EN)**

Application  
**EP 10003163 A 20100324**

Priority  
US 41090109 A 20090325

Abstract (en)  
[origin: EP2233055A2] A cleaning tool (1) comprises a soft, flexible body (20). A resilient backbone is located inside of the flexible body (20). The backbone (22) may be insert molded in the body (20). The backbone (22) may be formed of a plurality of branches where the branches extend from a center core to the edge of the body (20). The backbone (22) may be formed with an arched shape in its undeformed state such that the body (20) has an arched shape in its undeformed state and a cleaning surface of the body has a concave shape such that pressure may be applied to the body opposite the cleaning surface to flatten out the body. The body (20) may have a first straight edge (40) and an opposite convex edge (42) where the concave edge may terminate at a corner having an acute included angle. The backbone may be pivotably connected to a handle (4).

IPC 8 full level  
**A47L 13/254** (2006.01)

CPC (source: EP)  
**A47L 13/254** (2013.01)

Citation (search report)

- [X] US 2002138934 A1 20021003 - PETNER ROBERT E [US], et al
- [X] US 4683875 A 19870804 - RABINOWITZ LEWIS [US]
- [X] WO 2006113386 A2 20061026 - JOHNSON & SON INC S C [US], et al
- [A] WO 9504493 A1 19950216 - MELICONI SPA [IT], et al

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CN107184165A; US10595690B2; CN111287277A; CN107184164A; US11998153B2; US10702121B2; US11191401B2; WO2014132152A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA ME RS

DOCDB simple family (publication)  
**EP 2233055 A2 20100929; EP 2233055 A3 20130424**; CA 2696176 A1 20100925

DOCDB simple family (application)  
**EP 10003163 A 20100324**; CA 2696176 A 20100310