

Title (en)
Cleaning implement

Title (de)
Reinigungseinsatz

Title (fr)
Outil de nettoyage

Publication
EP 2494903 A2 20120905 (EN)

Application
EP 12157849 A 20120302

Priority
US 201113041267 A 20110304

Abstract (en)
Novel cleaning implements and novel components of cleaning implements are provided. Aspects relate to novel wringers (18) having convex regions with a plurality of drain exits (35). In some embodiments, concave regions (1634-1640) are also provided. The concave regions (1634-1640) are substantially devoid of any drain exits. An upper portion of the wringer (18) may be substantially cylindrical or conic-cylindrical and a lower portion may be neither cylindrical nor conic-cylindrical. The bottom perimeter of the bottom may define a square-like shape. Further aspects relate to novel connection assemblies (50). Certain assemblies (50) may have a top portion with a vertical wall that is configured to position mop fibres (14) along a vertical axis.

IPC 8 full level
A47L 13/142 (2006.01); **A47L 13/255** (2006.01); **B25G 3/28** (2006.01)

CPC (source: CN EP)
A47L 13/142 (2013.01 - CN EP); **A47L 13/255** (2013.01 - CN EP); **B25G 1/10** (2013.01 - CN); **B25G 3/28** (2013.01 - EP)

Citation (applicant)
• US 5060338 A 19911029 - YATES JAMES P [US], et al
• US 1709622 A 19290416 - JUSTIS ANDREW F
• US 3364512 A 19680123 - SHUSUKE YAMASHITA, et al
• US 3946457 A 19760330 - ROBINSON PAUL E
• US 4809287 A 19890228 - OHBA YASUO [JP], et al
• DE 3607121 A1 19870910 - LEIFHEIT AG [DE]

Cited by
CN114748001A

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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