

Title (en)

Cleaning machine with removable container for dispensing cleaning fluid.

Title (de)

Reinigungsgerät mit abnehmbarem Behälter zur Verteilung von Reinigungsflüssigkeit.

Title (fr)

Machine de nettoyage avec un réservoir amovible pour distribuer le liquide nettoyant.

Publication

**EP 0404279 A2 19901227 (EN)**

Application

**EP 90202187 A 19841102**

Priority

- EP 84904255 A 19841102
- US 58554784 A 19840302
- US 58560984 A 19840302
- US 58587384 A 19840302

Abstract (en)

The container has indentures 210 and 212 in its front surface and on its rear surface there are corresponding indentures which engage with abutments 268 of a docking port 68. An insert in the top of the bottle neck has a pair of nozzles 236 and 238 therein. Nozzle 236 is an inlet for compressed air supplied through tube 154 while nozzle 238 is connected to a tube 246 extending to the bottom of the container and forms an outlet for cleaning fluid to conduit 150. A collar rotatable on the bottle neck by movement of an integral handle 218 between indentures 210 and 212 has a pair of cam grooves 226 into which lugs 262 are engaged so that the container is moved axially to engage nozzles 236 and 238 through sealing disc 264 with nipples 256 and 258 of a V-shaped clip 254 which fits within the docking housing 250, is located by projections 260 and carries the lugs 262.

IPC 1-7

**A47L 11/30**

IPC 8 full level

**A47L 11/30** (2006.01); **B01F 3/08** (2006.01)

CPC (source: EP)

**A47L 11/30** (2013.01); **A47L 11/40** (2013.01); **A47L 11/4016** (2013.01); **A47L 11/4027** (2013.01); **A47L 11/4044** (2013.01); **A47L 11/4075** (2013.01); **A47L 11/4083** (2013.01); **A47L 11/4088** (2013.01); **B01F 23/49** (2022.01)

Cited by

EP0744148A3; DE102004063201A1; EP0535782A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)

**WO 8503853 A1 19850912**; AT E118324 T1 19950315; AT E121918 T1 19950515; AU 3671884 A 19850924; DE 3485060 D1 19911017; DE 3486370 D1 19950323; DE 3486370 T2 19950614; DE 3486386 D1 19950608; DE 3486386 T2 19960125; EP 0174312 A1 19860319; EP 0174312 A4 19860724; EP 0174312 B1 19910911; EP 0404278 A2 19901227; EP 0404278 A3 19920325; EP 0404278 B1 19950503; EP 0404279 A2 19901227; EP 0404279 A3 19920325; EP 0404279 B1 19950215

DOCDB simple family (application)

**US 8401786 W 19841102**; AT 90202186 T 19841102; AT 90202187 T 19841102; AU 3671884 A 19841102; DE 3485060 T 19841102; DE 3486370 T 19841102; DE 3486386 T 19841102; EP 84904255 A 19841102; EP 90202186 A 19841102; EP 90202187 A 19841102