

Title (en)

A toilet hygiene unit with automatic cleaning apparatus.

Title (de)

Sanitärzelle mit automatischer Reinigungsvorrichtung.

Title (fr)

Module sanitaire avec dispositif de nettoyage automatique.

Publication

**EP 0509503 A1 19921021 (EN)**

Application

**EP 92106610 A 19920416**

Priority

IT TO910086 U 19910416

Abstract (en)

The hygiene unit is formed by a monobloc (17) including the bowl (18) and associated liftable seat (22), and a casing (19) in which is housed a washing, disinfecting and drying device (44) for the seat (22). The casing (19) is provided with an aperture (31) in which is disposed a seat back (32) for the user. The seat back (32) is displaced parallel to itself when the seat (22) is in the vertical position. For this purpose the device (44) is mounted on a carriage (46) movable vertically between the seat (22) and the seat back (32), which are thus simultaneously cleaned during a series of complete movements of the carriage (46). Further, the seat (22) is provided with a series of nozzles (65) for creating a film of water within the bowl (18) during use, and for then more thoroughly cleaning the bowl (18) by means of a high pressure jet of water. <IMAGE>

IPC 1-7

**A47K 13/30; E03D 9/00**

IPC 8 full level

**A47K 13/30 (2006.01); E03D 9/00 (2006.01)**

CPC (source: EP)

**A47K 13/302 (2013.01); E03D 9/00 (2013.01)**

Citation (search report)

- [A] GB 2204611 A 19881116 - MAK CHAI LEUNG
- [A] EP 0274588 A2 19880720 - PT MATIC SPA [IT]
- [A] US 4980931 A 19910101 - MEISELS CHASKEL [US]
- [A] DE 2907754 A1 19800904 - GERTRUD STOCKBURGER FA
- [A] US 2164320 A 19390704 - GROENIGER WILLIAM C

Cited by

CN102824136A; ITMI20121217A1; FR2718339A1; EP2898807A1; EP3170945A1; WO2013190547A1; US11834080B2

Designated contracting state (EPC)

CH DE ES FR GR LI

DOCDB simple family (publication)

**EP 0509503 A1 19921021; EP 0509503 B1 19950201; DE 69201322 D1 19950316; DE 69201322 T2 19950720; ES 2069337 T3 19950501; GR 3015928 T3 19950731; IT 223245 Z2 19950621; IT TO910086 U1 19921016; IT TO910086 V0 19910416**

DOCDB simple family (application)

**EP 92106610 A 19920416; DE 69201322 T 19920416; ES 92106610 T 19920416; GR 950401049 T 19950425; IT TO910086 U 19910416**