

Title (en)

Automatic cleaning device for toilet seat

Title (de)

Automatische Reinigungsvorrichtung für einen Toilettensitz

Title (fr)

Dispositif de nettoyage automatique pour siège de toilettes

Publication

EP 1946691 A1 20080723 (EN)

Application

EP 08000591 A 20080114

Priority

TW 96200878 U 20070116

Abstract (en)

An automatic cleaning device for a toilet seat includes a frame-shape seat (2); a cover (3), a rear side of which is pivoted to the seat (2) to be lifted upward or covered on the seat (2); a liquid transmission device (33) for exporting detergent; and a control unit. The seat (2) allows a user to sit, a bottom of the cover (3) is provided with a tube coil (31) connected to the liquid transmission device (33), and the tube coil (31) is provided with through-holes (311) aligned alternately. After the toilet has been used and the cover (3) has been covered on the seat (2), the control unit enables the detergent which is exported by the liquid transmission device (33) to be exported from the through-holes (311) of the tube coil (31) to clean a surface of the seat (2), for maintaining sanitairiness.

IPC 8 full level

A47K 13/30 (2006.01)

CPC (source: EP)

A47K 13/302 (2013.01)

Citation (search report)

- [X] DE 2907754 A1 19800904 - GERTRUD STOCKBURGER FA
- [XA] US 4924532 A 19900515 - PENNESTRI DOMENICK [US]
- [A] US 4980931 A 19910101 - MEISELS CHASKEL [US]
- [A] GB 2204611 A 19881116 - MAK CHAI LEUNG

Cited by

EP2241235A1; FR2938418A1; CN112790657A

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 1946691 A1 20080723; JP 3140480 U 20080327; TW M315563 U 20070721

DOCDB simple family (application)

EP 08000591 A 20080114; JP 2008000139 U 20080115; TW 96200878 U 20070116