

Title (en)  
DRIVE FOR A NOZZLE ARM OF A BIDET

Publication  
**EP 0451098 A3 19921014 (DE)**

Application  
**EP 91810201 A 19910322**

Priority  
CH 110790 A 19900403

Abstract (en)  
[origin: US5159722A] A shower arm (9) drive for a bidet is provided in which the shower arm, a lever type drive mechanism (37), a piston cylinder (36), and a water distributor (34) are fastened on a support plate (1). To extend the shower arm (9) for the showering process, the pressure chamber (39) of the piston cylinder (36) is connected to the water mains by actuating a pressure switch. The piston (21) is pushed forward against the restoring force of a compression spring by the pressure of the water flowing into the chamber (39), and the shower arm (9) is extended via the lever type drive mechanism (37). A control valve (12) regulates the admission of warm shower water to a nozzle (10) arranged at the front end of the shower arm (9). The drive permits space-saving arrangement and the installation of the drive in a water closet lid.

IPC 1-7  
**E03D 9/08**

IPC 8 full level  
**E03D 9/08** (2006.01)

CPC (source: EP US)  
**E03D 9/08** (2013.01 - EP US)

Citation (search report)  
• [A] DE 2540962 A1 19770317 - MFB NEUWERK MECH FENSTER  
• [AD] GB 2172802 A 19861001 - INAX CORP  
• [AD] US 4570274 A 19860218 - KANEKO KENICHI [JP], et al

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**US 5159722 A 19921103**; AT E103028 T1 19940415; CA 2038854 A1 19911004; DE 59101174 D1 19940421; DE 9103208 U1 19910613; EP 0451098 A2 19911009; EP 0451098 A3 19921014; EP 0451098 B1 19940316; FI 88637 B 19930226; FI 88637 C 19930610; FI 911482 A0 19910327; FI 911482 A 19911004; NO 911183 D0 19910325; NO 911183 L 19911004

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**US 67944391 A 19910402**; AT 91810201 T 19910322; CA 2038854 A 19910322; DE 59101174 T 19910322; DE 9103208 U 19910315; EP 91810201 A 19910322; FI 911482 A 19910327; NO 911183 A 19910325