



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
14.01.2009 Bulletin 2009/03

(51) Int Cl.:
A47K 13/10 (2006.01)

(43) Date of publication A2:
23.05.2007 Bulletin 2007/21

(21) Application number: **06255945.5**

(22) Date of filing: **21.11.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

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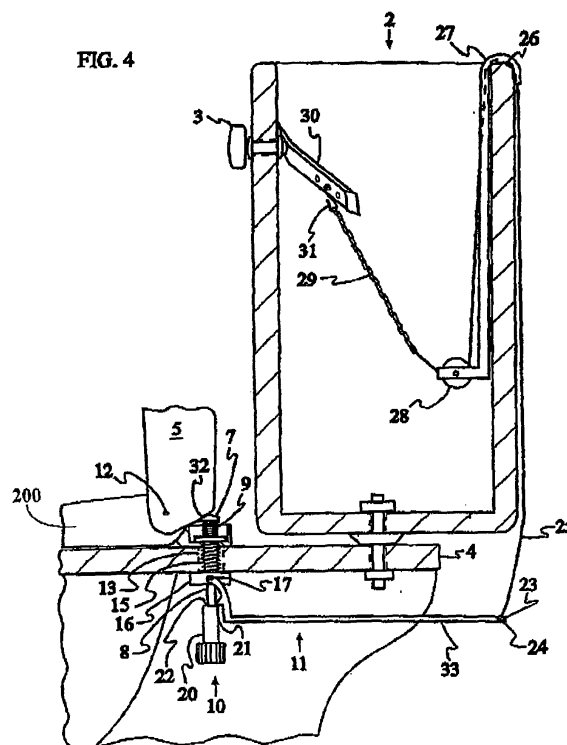
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(30) Priority: **21.11.2005 US 738630 P**

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(54) **Closure apparatus and method of installing same**

(57) A toilet assembly that includes a bowl, a toilet seat member mounted on the bowl for movement between raised and lowered positions, and a tank mounted on the bowl. The tank is adapted to contain water for flushing the toilet and has a flushing apparatus for causing the water in the tank to flow into the bowl. The toilet assembly also includes a hydraulic closure apparatus mounted on the toilet. The apparatus includes a member movable relative to the toilet and engageable with the seat member such that movement of the member in one direction moves the seat member toward the lowered position. Movement of the seat member toward the raised position moves the member in an opposite direction. The apparatus also includes a cylinder and a piston slidable inside the cylinder. The piston divides the cylinder into first and second chambers and is connected to the member such that movement of the member in the opposite direction moves the piston in the direction minimizing the volume of the second chamber. The apparatus further includes a spring positioned in the second chamber. The spring is compressed by the piston when the piston moves in the direction minimizing the volume of the second chamber. The apparatus also further includes a conduit having one end in communication with the second chamber and a second end positioned in the water in the tank. The toilet assembly further includes a valve arrangement for closing the second end of the conduit when the tank is relatively full of water and for opening the second end of the conduit when the toilet is flushed.





EUROPEAN SEARCH REPORT

Application Number
EP 06 25 5945

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 4 December 2008	Examiner Clasing, Martina
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 25 5945

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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04-12-2008

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