

Title (en)

Closure apparatus and method of installing same

Title (de)

Schliessvorrichtung und Verfahren deren Installation

Title (fr)

Dispositif de fermeture et méthode d'installation de celui-ci

Publication

**EP 1787559 A2 20070523 (EN)**

Application

**EP 06255945 A 20061121**

Priority

US 73863005 P 20051121

Abstract (en)

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.

IPC 8 full level

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CPC (source: EP)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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