

Title (en)
FLUSHING SYSTEM FOR A TOILET

Title (de)
SPÜLSYSTEM FÜR EINE TOILETTE

Title (fr)
SYSTÈME DE RINÇAGE POUR TOILETTES

Publication
EP 4036332 A1 20220803 (DE)

Application
EP 22151789 A 20220117

Priority
CN 202120239969 U 20210128

Abstract (en)
[origin: CN214657498U] The flushing system comprises an electromagnetic valve, a water tank, a water pump and a float liquid level switch, and the float liquid level switch controls the electromagnetic valve to be closed when the liquid level of the water tank rises to a high water level set value. The float liquid level switch controls the electromagnetic valve to be opened when the liquid level of the water tank drops to a low water level set value, a water outlet of the electromagnetic valve is connected with a water inlet of the water tank through a water pipe, and the water outlet of the water tank is connected with a water inlet of the water pump through a water pipe. A water outlet of the water pump is connected with the flushing water channel of the ceramic base through a water pipe, a water inlet of the water tank is formed in the top of the water tank, a water outlet of the water tank is formed in the bottom of the water tank, an air separation distance exists between the water inlet of the water tank and the liquid level rising to the high water level set value, and water in the water tank can be effectively prevented from flowing back. In addition, the water pump does work to wash the sewage tank, and the installation requirements of a wall-free water tank and a cabinet type water tank can be met.

Abstract (de)
Die Erfindung betrifft eine Toilette mit einem Keramikkörper (10), in dessen vorderem Abschnitt ein Auffangbecken (12) ausgebildet ist. Im hinteren Abschnitt des Keramikkörpers (10) ist ein Spülsystem (20) angeordnet, das ein elektromagnetisches Ventil (21), einen Wasserkasten (22), eine Wasserpumpe (23) sowie einen Schwimmer-Flüssigkeitsstandscharter umfasst. Das elektromechanische Ventil (21) sperrt den Wassereinlass, wenn der Flüssigkeitspegel im Wasserkasten (22) einen hohen Wasserstand-Einstellwert erreicht und öffnet den Wassereinlass, wenn der Flüssigkeitspegel einen niedrigen Wasserstand-Einstellwert erreicht. Zwischen dem Wasserauslass des Wassereinlassventils (21) und dem bis zum hohen Wasserstand-Einstellwert steigenden Flüssigkeitspegel ist ein Luftspalt vorgesehen.

IPC 8 full level
E03D 1/26 (2006.01); **E03D 1/32** (2006.01); **E03D 5/01** (2006.01)

CPC (source: EP)
E03D 1/26 (2013.01); **E03D 1/32** (2013.01); **E03D 5/01** (2013.01)

Citation (search report)
• [XYI] US 9702130 B2 20170711 - FUKUYA KOUJI [JP], et al
• [XYI] US 2017275862 A1 20170928 - KASHIRAJIMA SHU [JP], et al
• [I] EP 2058443 A1 20090513 - TOTO LTD [JP]
• [Y] US 2018282987 A1 20181004 - KASHIRAJIMA SHU [JP], et al

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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