

Title (en)
WATER-FLUSHED TOILET PAN

Title (de)
TOILETTENSCHÜSSEL MIT WASSERSPÜLUNG

Title (fr)
CUVETTE DE TOILETTE À CHASSE D'EAU

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Application
EP 21205572 A 20211029

Priority
PL 43906321 A 20210929

Abstract (en)
The invention concerns a water-flushed toilet pan with a rimless toilet bowl (1), with the supply of flush water in its rear top part, which includes an inlet pipe (8) terminated with an inlet hole (7) and a channel (9) located behind it, terminated with an outlet (10). The outlet hole (2) to the trap (3) is located in the bottom part of the bowl (1). The toilet pan has the first central plane (A-A), which, when the toilet pan is assembled, is parallel to the installation wall and abstractly divides the toilet pan through the centre of the outlet hole (2) into the front and rear section, as well as a perpendicular second central plane (C-C), which abstractly divides the toilet pan through the centre of the outlet hole (2) into the right and left section. The toilet bowl (1) has a top edge (6) that is a fragment of the top inner surface of the toilet bowl (1), located directly below the external cover (5) and having an approximately elliptical shape, formed as a flat circle whose walls are essentially vertical. The outlet hole (2) is shifted within that ellipse towards the rear of the toilet pan. The outlet (10) of the channel (9) is positioned asymmetrically to the second central plane (C-C), on the right or left side of the bowl (1), in its upper area, so that flush water flows into it falling first on the rear section of the top edge (6), in a direction essentially horizontal and tangential with the inner surface of the bowl (1), and then performs rotary motion inside it. The toilet pan is characterised in that the internal shape of the toilet bowl (1), excluding the location of the outlet (10), has a symmetric shape relative to the second central plane (C-C), and that the bowl (1) on its internal side, at the level of the outlet (10) and directly below the top edge (6), has an upper threshold (12) formed as a bulge running horizontally around the inner surface of the toilet bowl (1), whereas it protrudes slightly less in the rear area of the toilet bowl (1) than in other areas thereof.

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E03D 11/08 (2006.01)

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Citation (applicant)
• GB 685960 A 19530114 - IDEAL BOILERS & RADIATORS LTD
• GB 2045311 B 19830420 - ARMITAGE SHANKS LTD
• FR 2744744 A1 19970814 - DOGRUSOZ UFUK [FR]
• GB 2431937 A 20070509 - TWYFORD BATHROOMS [GB]
• EP 2604761 B1 20150218 - GEBERIT INT AG [CH]

Citation (search report)
• [YA] DE 202017105106 U1 20170921 - FUJIAN XINCHANG SANITARY WARE CO LTD [CN]
• [YDA] EP 2604761 B1 20150218 - GEBERIT INT AG [CH]
• [Y] US 2018135290 A1 20180517 - KASHIRAJIMA SHU [JP], et al

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