

Title (en)  
EFFICIENT FLUSH TOILET

Title (de)  
EFFIZIENTE SPÜLTOILETTE

Title (fr)  
TOILETTES À CHASSE D'EAU EFFICACES

Publication  
EP 4321698 A1 20240214 (EN)

Application  
EP 23190433 A 20230808

Priority  
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Abstract (en)  
A toilet flushing assembly comprising:a spiral trapway having an upstream portion coupled to a toilet bowl, a curved portion, and a downstream portion coupled to a waste outlet; anda drive mechanism coupled to the spiral trapway and configured to rotate the spiral trapway from a first orientation to a second orientation, wherein the first orientation evacuates contents from the toilet bowl and the second orientation advances the contents from the spiral trapway to the waste outlet.

IPC 8 full level  
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Citation (search report)  
• [XYI] WO 2014097296 A1 20140626 - DRORI EFRAIM [IL]  
• [X] CN 101691775 A 20100407 - CHUANHUA YE  
• [X] US 2002112283 A1 20020822 - JANSEN PETER [GB]  
• [Y] US 2018305912 A1 20181025 - GUHA ETASH KUMAR [US]  
• [Y] WO 2009157996 A2 20091230 - KOHLER CO [US], et al

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