

Title (en)
SELF-SEALING FLOOR DRAINAGE

Title (de)
SELBSTABDICHTENDER BODENABLAUF

Title (fr)
SIPHON DE SOL AUTO-OBTURANT

Publication
EP 1724402 A4 20070404 (EN)

Application
EP 04802588 A 20041230

Priority
• CN 2004001576 W 20041230
• CN 200420008195 U 20040310

Abstract (en)
[origin: EP1724402A1] A self-sealing floor drain includes a hollow cylindrical drain basket mounted in a drain pipe or an existing bell-type floor drain, and a sealing disc movably mounted at a water outlet of the drain basket. The drain basket has a case, on an inner wall surface of which a switch unit is mounted. A torsion spring is provided in the switch unit for opening and closing the sealing disc. Waste water flown into the drain basket applies a downward force on the sealing disc to thereby open a bottom sealing joint of the drain basket to drain the waste water. When the waste water has been drained, the torsion spring brings the sealing disc upward to seal the sealing joint again, so that sewage, bad smell, hazardous gas, and insects are stopped from entering into a room via the floor drain due to a positive pressure state in the drain pipe.

IPC 8 full level
E03C 1/288 (2006.01); **E03C 1/282** (2006.01); **E03C 1/298** (2006.01); **E03F 5/04** (2006.01)

CPC (source: EP)
E03C 1/298 (2013.01); **E03F 5/0407** (2013.01); **E03F 2005/0417** (2013.01)

Citation (search report)
• [DA] WO 0014345 A1 20000316 - KIM JONG SUN [KR]
• [A] EP 1188870 A2 20020320 - GEBERIT TECHNIK AG [CH]
• [A] US 2002189675 A1 20021219 - HUBER DONALD G [US], et al
• [A] GB 2238327 A 19910529 - YEO STEVE SIOW KUANG
• See references of WO 2005085537A1

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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EP 1724402 A1 20061122; EP 1724402 A4 20070404; CN 100414047 C 20080827; CN 1926290 A 20070307; CN 2714643 Y 20050803; HK 1090966 A1 20070105; WO 2005085537 A1 20050915

DOCDB simple family (application)
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