Title (en)

DEVICE FOR FLUSHING SEWERS BY SIPHONIC ACTION

Publication

EP 0011778 B1 19830209 (DE)

Application

EP 79104511 A 19791115

Priority

SE 7812055 A 19781123

Abstract (en)

[origin: DK496479A] A collecting well or receptacle 2 for liquid. Extending from the lower part 3 of the receptacle 2 is a riser pipe 5 having a certain inclination relative to the horizontal. This pipe runs via a bend 6 and possibly a reduction 8 over into a vertical pipe 7, which is connected to an essentially U-shaped pipe piece 9 with horizontal outlet 10. When the receptacle 2 is full of liquid, an additionally supplied liquid flow which is greater than the minimum flow which can flow continuously through the unit will form a water lock in the pipe piece 9. When liquid is discharged from the pipe piece 9 to the outlet 10, an underpressure is formed in the vertical pipe 7, which gives rise to an evacuation of the receptacle 2 with the creation of a siphon effect. The liquid is discharged from the unit as cohesive plugs with high kinetic energy. The siphon well allows small conduits to be used in sewerage systems without losing the necessary self- purifying capability, even if low-flush toilets are connected to the system. The siphon well can also be used in irrigation systems and in connection with the gradual metering of liquid. <IMAGE>

IPC 1-7

E03F 5/10; E03F 7/00

IPC 8 full level

E03C 1/28 (2006.01); **E03F 5/04** (2006.01); **E03F 5/10** (2006.01); **E03F 5/20** (2006.01); **E03F 7/00** (2006.01)

CPC (source: EP US)

E03F 5/0402 (2013.01 - EP US); Y10T 137/2774 (2015.04 - EP US); Y10T 137/2815 (2015.04 - EP US); Y10T 137/4576 (2015.04 - EP US)

Cited by

WO9837283A1; DE102005062705A1; CN102261122A; DE3915076A1; CN104652578A; NL1005365C2; US6161594A; WO9803743A1

Designated contracting state (EPC)

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EP 0011778 A1 19800611; **EP 0011778 B1 19830209**; AT E2450 T1 19830315; AU 5258479 A 19800529; AU 529234 B2 19830602; CA 1139634 A 19830118; CY 1336 A 19861024; DE 2964750 D1 19830317; DK 161844 B 19910819; DK 161844 C 19920127; DK 496479 A 19800524; EG 17544 A 19901030; ES 246867 U 19800716; ES 246867 Y 19810116; FI 71385 B 19860909; FI 793616 A 19800524; GR 72725 B 19831201; HK 36987 A 19870515; IL 58805 A0 19800229; IL 58805 A 19820831; JP S5575036 A 19800606; KE 3609 A 19860327; MY 8600028 A 19861231; NO 150523 B 19840723; NO 150523 C 19841031; NO 793792 L 19800527; NZ 192087 A 19831216; OA 06390 A 19810731; PT 70471 A 19791201; SE 423921 B 19820614; SE 7812055 L 19800524; SG 9385 G 19850808; TR 21035 A 19830527; US 4480655 A 19841106

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