

Title (en)
FLUSH

Publication
EP 0386539 A3 19911211 (DE)

Application
EP 90103436 A 19900222

Priority
DE 3907214 A 19890307

Abstract (en)
[origin: EP0386539A2] A flush for a toilet bowl has an air-suction ventilation system. The latter is separated from an inner pipe by an odour seal provided in a water cistern. The inner tube is constructed as a connection to the toilet bowl. The air-suction ventilation system is constructed as a vent pipe extending parallel to the inner pipe. The suction pipe is connected to a discharge system and its top end, which reaches into the water cistern, projects above the water level when the water cistern is full and is immediately adjacent to a top end, projecting above the water level indicator, of the inner pipe. The end of the suction pipe and the end of the inner pipe are connected to one another under a common cap via an inner space surrounded by the cap. With its walls surrounding the inner space, the cap reaches into the water. The suction pipe is guided within the inner pipe. The suction pipe is guided out of the inner pipe in the region of a base bounding the water cistern on its underside facing the toilet bowl. It is guided outside the water cistern from a connection sleeve which is fastened to the base of the water cistern and to which a flush leading to the toilet bowl is connected. The connection sleeve is constructed, at its end reaching into the water cistern, as a valve seat. The latter forms, together with the inner pipe constructed at its bottom end as a sealing washer, a discharge valve which controls the discharge of flushing water from the cistern. The suction pipe is connected, at its bottom end projecting out of the water cistern, to a suction side of a ventilator. The top end of the inner pipe is separated from the top end of the suction pipe via the odour seal. The odour seal is constructed as a water trough which surrounds the suction pipe annularly. Said water trough holds a bottom end of a closing cap, which is displaceable in the longitudinal direction of the suction pipe, if the inner pipe is closed with respect to the suction pipe. If the inner pipe is open with respect to the suction pipe, it frees the bottom edge of the closing cap.

IPC 1-7
E03D 9/052; **E03D 1/00**

IPC 8 full level
E03D 9/052 (2006.01)

CPC (source: EP US)
E03D 9/052 (2013.01 - EP US)

Citation (search report)

- [X] WO 8002577 A1 19801127 - LAGERSTEDT & KRANTZ AB [SE], et al
- [Y] US 1342716 A 19200608 - JOHNSTON EDWIN A
- [A] FR 2098019 A5 19720303 - GAGGENAU EISENWERK
- [A] DE 3631595 A1 19880324 - MENGE HEINRICH [DE]
- [A] US 4318192 A 19820309 - WILLIAMS JACK D, et al

Cited by
WO9954563A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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EP 0386539 A2 19900912; **EP 0386539 A3 19911211**; DE 3907214 A1 19900913; US 4998299 A 19910312

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EP 90103436 A 19900222; DE 3907214 A 19890307; US 49147890 A 19900306