

Title (en)
Vacuum sewage collecting system.

Title (de)
Vakuumsystem zum Sammeln von Abwasser.

Title (fr)
Système sous vide pour recueillir des eaux usées.

Publication
EP 0287350 A2 19881019 (EN)

Application
EP 88303325 A 19880413

Priority
NO 871539 A 19870413

Abstract (en)
A vacuum sewage collecting system, comprises a vacuum tank (1) which through a supply pipe (6) is connected to toilets, drainage tanks for urinals, greywater etc., and a vacuum pump (4) which through a suction pipe (7) provides the vacuum in the vacuum tank (1). By means of an air and liquid permeable dividing plate or wall (10) the vacuum tank (1) is divided into two chambers, a first chamber (8) on to which the supply pipe (6) is connected and a second chamber (9) on to which the suction pipe (7) is connected. A macerator or grinder (3) is disposed in connection with the first chamber (8), to grind solid particles and transport these together with the liquid (sewage) which is present in the first chamber (8) to the second chamber (9) through a connecting pipe (11). Further, the vacuum in the vacuum tank (1) is generated by means of a vacuum pump (4) which is adapted to pump the liquid as well as the grounded, solid particles from the tank (4) to a storage tank or the like.

IPC 1-7
E03F 1/00

IPC 8 full level
E03F 1/00 (2006.01)

CPC (source: EP)
E03F 1/006 (2013.01)

Cited by
WO2018174719A1; CN109794195A; US7029231B2; DE102011000732B3; US5344085A; US8381324B2; US10030654B2; DE202014011520U1; WO9010123A1; DE202018006087U1; US11333423B2; WO2022261688A1

Designated contracting state (EPC)
DE ES FR GB NL

DOCDB simple family (publication)
EP 0287350 A2 19881019; EP 0287350 A3 19890118; EP 0287350 B1 19910821; DE 3864300 D1 19910926; ES 2026253 T3 19920416; FI 87823 B 19921113; FI 87823 C 19930225; FI 881705 A0 19880413; FI 881705 A 19881014; NO 165502 B 19901112; NO 165502 C 19910220; NO 871539 D0 19870413; NO 871539 L 19881014

DOCDB simple family (application)
EP 88303325 A 19880413; DE 3864300 T 19880413; ES 88303325 T 19880413; FI 881705 A 19880413; NO 871539 A 19870413