

Title (en)

SUCTION DREDGE FOR RECEIVING AND SEPARATING SUCTION MATERIAL SUCH AS SOIL OR SLUDGE

Title (de)

SAUGBAGGER ZUM AUFNEHMEN UND ABSCHIEDEN VON SAUGGUT, WIE ERDREICH ODER SCHLÄMME SOWIE VERFAHREN HIERZU

Title (fr)

DRAGUE SUCEUSE POUR COLLECTER ET SEPARER DES MATERIAUX DRAGUES TELS QUE DE LA TERRE OU DES BOUES ET PROCEDE APPROPRIE

Publication

**EP 1127196 B1 20030917 (DE)**

Application

**EP 99963208 A 19991105**

Priority

- DE 9903536 W 19991105
- DE 19851111 A 19981106

Abstract (en)

[origin: WO0028159A1] The invention relates to a suction dredge for receiving and separating suction material (12, 12') with a pneumatic suction turbine (5) which is connected to a collecting tank (1). A suction tube (7) leads into said collecting tank and a large part of the suction material is fed into said tank. The suction dredge also comprises a filter chamber (2) with a plurality of filters (10, 10') through which the suction air flow (11, 11', 11'') is guided for fine-filtering. The collecting tank and the filter chamber are separated by a partition (8) which comprises a through-hole (9) for the suction air flow. Said suction air flow (11, 11', 11'') is directed to the upper part of the wall (25) of the collecting tank opposite the partition (8). Said through-hole (9) of the partition is located in the upper part thereof so that a cyclone-type suction air current about a vertical axis is produced in the collecting tank. The suction air flow impacts the filter (10, 10') in a substantially vertical direction. The inlet of the air suction flow into the collecting tank and the outlet of the suction air flow (13) from the filters are displaced from one another by 180 DEG to 270 DEG .

IPC 1-7

**E02F 3/88**; **E02F 3/92**

IPC 8 full level

**E02F 3/88** (2006.01); **E02F 3/92** (2006.01); **E02F 3/94** (2006.01)

CPC (source: EP)

**E02F 3/8825** (2013.01); **E02F 3/94** (2013.01)

Cited by

CN112502229A; DE202010009489U1; DE202010007463U1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0028159 A1 20000518**; AT E250171 T1 20031015; AU 1962900 A 20000529; DE 19851111 C1 19991202; DE 19982339 D2 20020103; DE 29912070 U1 19991007; DE 59907047 D1 20031023; EP 1127196 A1 20010829; EP 1127196 B1 20030917; ES 2207316 T3 20040516

DOCDB simple family (application)

**DE 9903536 W 19991105**; AT 99963208 T 19991105; AU 1962900 A 19991105; DE 19851111 A 19981106; DE 19982339 T 19991105; DE 29912070 U 19990710; DE 59907047 T 19991105; EP 99963208 A 19991105; ES 99963208 T 19991105