

Title (en)
ONLINE DRAFT-IN-PLACE GRAVITY SEWAGE DISCHARGING DEVICE AND METHOD, AND SUCTION AND BLOWING-OFF SYSTEM AND METHOD

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ONLINE-SCHWERKRAFTABWASSERAUSLASS, UND SAUG- UND ABBLASSYSTEM UND - VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ D'ÉVACUATION DES EAUX USÉES PAR GRAVITÉ ET TIRAGE SUR PLACE EN LIGNE, ET SYSTÈME ET PROCÉDÉ D'ASPIRATION ET DE SOUFFLAGE

Publication
EP 4253675 A1 20231004 (EN)

Application
EP 21896212 A 20210526

Priority
• CN 202011395303 A 20201130
• CN 2021096083 W 20210526

Abstract (en)
The present disclosure provides a device and a method for drafting air in field and in-situ unloading sewage based on gravity, and a system and a method for discharging suction sewage. The device for drafting air in field and unloading sewage based on gravity includes: a container body including a feeding port and a discharging port, wherein the feeding port is configured to allow a sewage to pass into an interior of the container body when the interior of the container body is in a negative pressure state; an air drafting assembly, located at a top of the container body and configured to discharge air from the container body in an open state until the interior of the container body is in the negative pressure state, and change from the open state to a closed state after the sewage passes into the interior of the container body; and a gravity sewage unloading assembly, located at a bottom of the container body and configured to close the discharging port of the container body in a normally closed state, and change from the normally closed state to an open state under an action of gravity of the sewage, so as to discharge the sewage from the discharging port.

IPC 8 full level
E03D 11/02 (2006.01); **E03D 11/10** (2006.01); **E03F 1/00** (2006.01)

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

Citation (search report)
See references of WO 2022110702A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4253675 A1 20231004; CN 112554301 A 20210326; WO 2022110702 A1 20220602

DOCDB simple family (application)
EP 21896212 A 20210526; CN 202011395303 A 20201130; CN 2021096083 W 20210526