

Title (en)
DEVICE FOR EXTRACTING PHOSPHORUS AND NITROGEN NUTRIENTS CONTAINED IN A LIQUID EFFLUENT AND EXTRACTION METHOD USED IN SUCH A DEVICE

Title (de)
VORRICHTUNG ZUR EXTRAKTION VON PHOSPHOR- UND STICKSTOFFNÄHRSTOFFEN IN EINEM FLÜSSIGEN ABFLUSS UND EXTRAKTIONSVERFAHREN ZUR VERWENDUNG IN SOLCH EINER VORRICHTUNG

Title (fr)
DISPOSITIF D'EXTRACTION DE NUTRIMENTS PHOSPHORE ET AZOTE CONTENUS DANS UN EFFLUENT LIQUIDE ET PROCÉDÉ D'EXTRACTION MIS EN OEUVRE DANS UN TEL DISPOSITIF

Publication
EP 4377266 A1 20240605 (FR)

Application
EP 22755184 A 20220726

Priority
• EP 21306042 A 20210727
• EP 2022070964 W 20220726

Abstract (en)
[origin: WO2023006760A1] The present invention relates to a device for extracting phosphorus and nitrogen nutrients contained in a liquid effluent, said effluent being preferably derived from the dehydration of a digestate of a mixture of an organic fraction of municipal waste, sludge and optionally manure and fats, comprising a first reactor comprising a means for extracting CO₂; a second reactor comprising a fluidized-bed reactor; a third reactor comprising a means for extracting ammonia and a gas scrubber; the first, second and third reactors being arranged in series.

IPC 8 full level
C02F 1/20 (2023.01); **C02F 1/52** (2023.01)

CPC (source: EP)
C02F 1/20 (2013.01); **C02F 1/5254** (2013.01); **C02F 2209/02** (2013.01); **C02F 2209/06** (2013.01); **C02F 2209/40** (2013.01)

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 4124603 A1 20230201; EP 4377266 A1 20240605; WO 2023006760 A1 20230202

DOCDB simple family (application)
EP 21306042 A 20210727; EP 2022070964 W 20220726; EP 22755184 A 20220726