

Title (en)

DRYING APPARATUS AND USE THEREOF AND PROCESS FOR PRODUCING AN ISOCYANATE USING THE DRYING APPARATUS

Title (de)

TROCKNUNGSVORRICHTUNG UND IHRE VERWENDUNG SOWIE VERFAHREN ZUR HERSTELLUNG EINES ISOCYANATS UNTER EINSATZ DER TROCKNUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE SÉCHAGE ET SON UTILISATION AINSI QUE PROCÉDÉ DE FABRICATION D'UN ISOCYANATE UTILISANT LE DISPOSITIF DE SÉCHAGE

Publication

EP 3948129 A1 20220209 (DE)

Application

EP 20713686 A 20200331

Priority

- EP 19166805 A 20190402
- EP 20160487 A 20200302
- EP 2020059107 W 20200331

Abstract (en)

[origin: WO2020201277A1] The present invention relates to a drying apparatus for evaporating volatile constituents from a starting material to be dried, to a process for producing an isocyanate using this drying apparatus and to the use of the drying apparatus for drying distillation bottoms streams, oil-containing waste, waste paint or coating materials, sewage sludges, mineral substances and coal slurries contaminated with organic compounds. In the drying apparatus the evaporated constituents (vapours) are passed into a condenser via a vapor dome and a vapor conduit. The drying apparatus has the feature that partial condensation of the vapours in the vapor dome and/or in the vapor conduit is intentionally allowed or induced during operation, and condensed constituents of the vapours are discharged from the drying apparatus via means installed for this purpose in the vapor dome and/or the vapour conduit.

IPC 8 full level

F26B 11/16 (2006.01); **C07C 263/20** (2006.01); **F26B 25/00** (2006.01)

CPC (source: EP KR US)

C07C 263/10 (2013.01 - US); **C07C 263/20** (2013.01 - EP KR US); **F26B 25/006** (2013.01 - EP KR US); **F26B 2200/18** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2020201277A1

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

DOCDB simple family (publication)

WO 2020201277 A1 20201008; CN 113614478 A 20211105; CN 113614478 B 20231117; EP 3948129 A1 20220209; JP 2022526915 A 20220527; KR 20210144854 A 20211130; US 2022187018 A1 20220616

DOCDB simple family (application)

EP 2020059107 W 20200331; CN 202080027146 A 20200331; EP 20713686 A 20200331; JP 2021557012 A 20200331; KR 20217035145 A 20200331; US 202017598946 A 20200331