

Title (en)

PROCESS AND DEVICE FOR PRODUCING NITROBENZENE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON NITROBENZOL

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA FABRICATION DE NITROBENZÈNE

Publication

EP 3956290 A1 20220223 (DE)

Application

EP 20716854 A 20200414

Priority

- EP 19169872 A 20190417
- EP 20164916 A 20200323
- EP 2020060437 W 20200414

Abstract (en)

[origin: WO2020212334A1] The invention relates to a continuously operating process for producing nitrobenzene, comprising the following steps: a) nitrating benzene in adiabatic conditions with sulfuric acid and nitric acid, using a stoichiometric excess of benzene in relation to the nitric acid, in multiple parallel reactors; b) first combining the raw process products of the nitridation from the parallel reactors to form a mixed flow in a device provided specifically for this purpose, then separating the mixed flow into a sulfuric acid phase and a nitrobenzene phase in a downstream phase separation apparatus; and c) processing the nitrobenzene phase, obtaining nitrobenzene. The invention also relates to a production plant suitable for carrying out the claimed process.

IPC 8 full level

C07C 201/08 (2006.01); **C07C 201/16** (2006.01)

CPC (source: EP US)

C07C 201/08 (2013.01 - EP US); **C07C 201/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2020212334A1

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 2020212334 A1 20201022; CN 113924284 A 20220111; EP 3956290 A1 20220223; US 2022162151 A1 20220526

DOCDB simple family (application)

EP 2020060437 W 20200414; CN 202080043845 A 20200414; EP 20716854 A 20200414; US 202017602333 A 20200414