

Title (en)
PROCESS FOR THE PRODUCTION OF 2,3,3,3-TETRAFLUOROPROPENE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON 2,3,3,3-TETRAFLUORPROPEN

Title (fr)
PROCEDE DE PRODUCTION DU 2,3,3,3-TETRAFLUOROPROPENE

Publication
EP 3710419 A2 20200923 (FR)

Application
EP 18875016 A 20181108

Priority
• FR 1760635 A 20171113
• FR 2018052777 W 20181108

Abstract (en)
[origin: WO2019092376A2] The invention relates to a process for producing 2,3,3,3-tetrafluoropropene, comprising the following steps: i) in a first reactor, contacting 2-chloro-3,3,3-trifluoropropene with gas-phase hydrofluoric acid in the presence of a catalyst to produce a stream A comprising 2,3,3,3-tetrafluoropropene, HF and unreacted 2-chloro-3,3,3-trifluoropropene; and ii) in a second reactor, contacting in gas phase, and optionally in the presence of a catalyst, hydrofluoric acid with at least one chlorinated compound selected from the group consisting of 1,1,1,2,3-pentachloropropane, 2,3-dichloro-1,1,1-trifluoropropane, 2,3,3,3-tetrachloropropene and 1,1,2,3-tetrachloropropene to produce a stream B comprising 2-chloro-3,3,3-trifluoropropene; characterised in that the stream A obtained in step i) supplies the second reactor used for step ii); and in that the pressure at the inlet of the first reactor of step i) is greater than the pressure at the inlet of the second reactor of step ii).

IPC 8 full level
C07C 17/20 (2006.01); **C07C 17/25** (2006.01); **C07C 21/18** (2006.01)

CPC (source: EP US)
B01J 23/26 (2013.01 - US); **C07C 17/206** (2013.01 - EP US); **C07C 17/25** (2013.01 - EP US); **C07C 21/18** (2013.01 - US)

Citation (search report)
See references of WO 2019092376A2

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 2019092376 A2 20190516; **WO 2019092376 A3 20190906**; CN 111328324 A 20200623; CN 111328324 B 20230808;
EP 3710419 A2 20200923; FR 3073516 A1 20190517; FR 3073516 B1 20191018; US 11028029 B2 20210608; US 2020331826 A1 20201022

DOCDB simple family (application)
FR 2018052777 W 20181108; CN 201880072971 A 20181108; EP 18875016 A 20181108; FR 1760635 A 20171113;
US 201816758097 A 20181108