

Title (en)

DEVICE AND METHOD FOR PROCESSING GAS, AND VENTILATION AND AIR CONDITIONING APPARATUS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BEHANDELN VON GAS UND RLT-GERÄT

Title (fr)

DISPOSITIF ET PROCÉDÉ DE TRAITEMENT DE GAZ, ET APPAREIL DE VENTILATION ET DE CLIMATISATION

Publication

**EP 4295091 A1 20231227 (DE)**

Application

**EP 22708875 A 20220217**

Priority

- DE 102021201530 A 20210217
- EP 2022053989 W 20220217

Abstract (en)

[origin: WO2022175403A1] The invention relates to a device for processing gas, comprising the following features: a compressor (40), which has a compressor inlet (41) and a compressor outlet (42); a heat exchanger (10), which has a heat exchanger inlet (11), a first heat exchanger outlet (12), a second heat exchanger inlet (13) and a second heat exchanger outlet (14), the heat exchanger being in the form of a gas-to-gas heat exchanger; a turbine (70), which has a turbine inlet (71) and a turbine outlet (72), the compressor outlet (42) being connected to the second heat exchanger inlet (13), and the second heat exchanger outlet (14) being connected to the turbine inlet (71); an inlet interface for coupling the compressor inlet (41) and the first heat exchanger inlet (11) to a gas feed; and an outlet interface (200) for coupling the turbine outlet (72) and the first heat exchanger outlet (12) to a gas discharge.

IPC 8 full level

**F25B 9/00** (2006.01); **F25B 9/06** (2006.01)

CPC (source: EP US)

**F25B 9/004** (2013.01 - EP US); **F25B 9/06** (2013.01 - EP US)

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)

**DE 102021201530 A1 20220818**; AU 2022224389 A1 20230831; EP 4295091 A1 20231227; US 2023384000 A1 20231130; WO 2022175403 A1 20220825

DOCDB simple family (application)

**DE 102021201530 A 20210217**; AU 2022224389 A 20220217; EP 2022053989 W 20220217; EP 22708875 A 20220217; US 202318448428 A 20230811