

Title (en)

NOZZLE MODULE FOR AN ENERGY CONVERTER

Title (de)

DÜSENMODUL FÜR EINEN ENERGIEWANDLER

Title (fr)

MODULE DE BUSE DESTINÉ À UN CONVERTISSEUR D'ÉNERGIE

Publication

**EP 2978940 B1 20180829 (DE)**

Application

**EP 15723699 A 20150519**

Priority

- DE 102014107038 A 20140519
- EP 2015060971 W 20150519

Abstract (en)

[origin: CA2949406A1] The invention relates to a nozzle module (1) for an energy converter, in particular for a power plant, comprising a first nozzle (2) for introducing a propellant fluid into a mixing chamber (3) and an introduction opening (4) for introducing a suction fluid into the mixing chamber (3), wherein the mixing chamber (3) has a geometry for the flow-intensifying combination of the propellant fluid and the suction fluid in the mixing chamber (3). In order to specify a nozzle module (1) which effects an increase in the efficiency of the power plant, a vapor pressure of the propellant fluid before the first nozzle (2) according to the invention is lower than a vapor pressure of the suction fluid before the introduction opening (4), and a gas pressure in the mixing chamber (3) in a region (6) after the first nozzle (2) is lower than a gas pressure in the mixing chamber (3) in a region (7) after the introduction opening (4).

IPC 8 full level

**F01D 25/00** (2006.01); **F01D 25/32** (2006.01)

CPC (source: EP US)

**F01D 25/00** (2013.01 - EP); **F01D 25/32** (2013.01 - EP); **F04F 5/10** (2013.01 - US); **F04F 5/24** (2013.01 - US); **F04F 5/463** (2013.01 - US); **F01D 25/00** (2013.01 - 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

DOCDB simple family (publication)

**DE 102014107038 A1 20151119**; CA 2949406 A1 20151126; CA 2949406 C 20220830; EP 2978940 A1 20160203; EP 2978940 B1 20180829; US 10711806 B2 20200714; US 2017074108 A1 20170316; WO 2015177130 A1 20151126

DOCDB simple family (application)

**DE 102014107038 A 20140519**; CA 2949406 A 20150519; EP 15723699 A 20150519; EP 2015060971 W 20150519; US 201515311109 A 20150519