

Title (en)

AERODYNAMIC CHOPPER FOR PULSATING A GAS FLOW

Title (de)

AERODYNAMISCHER ZERHACKER ZUM PULSIEREN EINER GASSTRÖMUNG

Title (fr)

HACHEUR AERODYNAMIQUE POUR LA PULSATION D'ÉCOULEMENT DE GAZ

Publication

EP 2456562 B1 20160608 (FR)

Application

EP 10752083 A 20100722

Priority

- FR 0903663 A 20090724
- FR 2010051557 W 20100722

Abstract (en)

[origin: WO2011018571A1] The present invention relates to a supersonic pulse flow device. Said invention is intended to provide a technical solution in a number of fields where the injection of a flow must be pulsed as required by the process or in order to limit the power consumption and size of the pumping means. In the event of flows obtained through a de Laval nozzle (13, 18), it is possible to generate a uniform supersonic jet having a very low temperature (currently up to 20 K) that is stable over hydrodynamic periods of time between 150 and 1000 microseconds. The aim of said invention is to resolve problems related to the use of aerodynamic tools in research and development and in industrial processes.

IPC 8 full level

B05B 1/00 (2006.01); **B05B 1/08** (2006.01); **B05B 12/06** (2006.01)

CPC (source: EP US)

B05B 1/005 (2013.01 - EP US); **B05B 1/083** (2013.01 - EP US); **B05B 12/06** (2013.01 - EP US); **Y10T 137/2185** (2015.04 - 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 SE SI SK SM TR

DOCDB simple family (publication)

FR 2948302 A1 20110128; **FR 2948302 B1 20121130**; CA 2768864 A1 20110217; EP 2456562 A1 20120530; EP 2456562 B1 20160608; US 2012125463 A1 20120524; US 8870159 B2 20141028; WO 2011018571 A1 20110217

DOCDB simple family (application)

FR 0903663 A 20090724; CA 2768864 A 20100722; EP 10752083 A 20100722; FR 2010051557 W 20100722; US 201013386867 A 20100722