

Title (en)

METHOD AND DEVICE FOR INCREASING THE PRESSURE OR ENTHALPY OF A FLUID FLOWING AT SUPERSONIC SPEED

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERHÖHUNG DES DRUCKES BEZIEHUNGSWEISE STEIGERUNG DER ENTHALPIE EINES MIT ÜBERSCHALL STRÖMENDEN FLUIDS

Title (fr)

PROCEDE ET DISPOSITIF POUR ACCROITRE LA PRESSION OU L'ENTHALPIE D'UN FLUIDE S'ECOULANT A UNE VITESSE SUPERSONIQUE

Publication

EP 1034029 B1 20030312 (DE)

Application

EP 99930911 A 19990707

Priority

- AT 9900173 W 19990707
- AT 118698 A 19980708

Abstract (en)

[origin: WO0002653A1] The invention relates to a method and a device for increasing the pressure or enthalpy of a fluid flowing at supersonic speed, according to which steam is mixed with a liquid, said mixture is accelerated to a supersonic speed and a condensation shock is initiated. Before the condensation shock is initiated additional liquid is introduced into the mixture flowing at supersonic speed.

IPC 1-7

B01F 5/04

IPC 8 full level

B01F 5/04 (2006.01)

CPC (source: EP US)

B01F 25/31 (2022.01 - EP US); **B01F 25/3122** (2022.01 - EP US); **B01F 25/3123** (2022.01 - EP US); **B01F 25/31233** (2022.01 - EP US); **B01F 25/31242** (2022.01 - EP US); **Y10T 137/87595** (2015.04 - EP US); **Y10T 137/87603** (2015.04 - EP US)

Cited by

US10507480B2; US9931648B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0002653 A1 20000120; CA 2302648 A1 20000120; DE 59904529 D1 20030417; EP 1034029 A1 20000913; EP 1034029 B1 20030312; US 6523991 B1 20030225

DOCDB simple family (application)

AT 9900173 W 19990707; CA 2302648 A 19990707; DE 59904529 T 19990707; EP 99930911 A 19990707; US 50821800 A 20000810