

Title (en)
EJECTORS

Title (de)
EJEKTOREN

Title (fr)
ÉJECTEURS

Publication
EP 3093585 A1 20161116 (EN)

Application
EP 16169423 A 20160512

Priority
US 201562162618 P 20150515

Abstract (en)
An ejector (200) has: a motive flow inlet (40); a secondary flow inlet (42); an outlet (44); and a motive nozzle (200). The motive nozzle has an exit (110). A motive flow flowpath proceeds through the motive nozzle and joins a secondary flow flowpath extending from the secondary flow inlet to form a combined flowpath to the outlet. From upstream to downstream along the motive flow flowpath, the motive nozzle has: a convergent section (206); a throat (208); a first divergent section (210) commencing within 10% of a throat-to-exit length (200) and diverging over a first length (L D1) of at least 10% of the throat-to-exit length (L TE); a second divergent section (212), the second divergent section diverging over a second length (L D2) of at least 10% of the throat-to-exit length at a shallower angle than the first divergent section over said first length.

IPC 8 full level
F25B 41/00 (2006.01)

CPC (source: EP US)
F25B 13/00 (2013.01 - US); **F25B 41/00** (2013.01 - EP US); **F25B 2341/0012** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US)

Citation (applicant)
• US 1836318 A 19311215 - GAY NORMAN H
• US 3277660 A 19661011 - KEMPER CLARENCE A, et al
• US 8523091 B2 20130903 - OGATA GOUTA [JP], et al

Citation (search report)
• [X] US 2009229304 A1 20090917 - OGATA GOUTA [JP], et al
• [X] JP 2003185301 A 20030703 - DENSO CORP
• [X] JP 2004116807 A 20040415 - DENSO CORP
• [X] US 2004007014 A1 20040115 - TAKEUCHI HIROTSUGU [JP], et al
• [A] JP 2006090606 A 20060406 - DENSO CORP
• [A] FR 2936596 A1 20100402 - VALEO SYSTEMES THERMIQUES [FR]

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EP3879124A1

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)
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DOCDB simple family (application)
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