

Title (en)
BYPASS VALVE FOR AN EXPANDER

Title (de)
BYPASS-VENTIL FÜR EINEN EXPANDER

Title (fr)
VANNE DE DERIVATION POUR MACHINE DE DETENTE

Publication
EP 3638888 A1 20200422 (FR)

Application
EP 18736997 A 20180611

Priority
• FR 1755260 A 20170613
• FR 2018051347 W 20180611

Abstract (en)
[origin: WO2018229368A1] The present invention relates to an expansion machine (0) comprising an inlet region (22) having an intake port for a pressurised working fluid, the fluid being made up of a main component in the gaseous phase under nominal operating conditions, filled with a lubricant component in the liquid phase. The high pressure area is made up of the inlet region (22) fed directly by the pressurised working fluid. The bypass circuit is in contact with the expansion area for transferring heat between the working fluid flowing in the bypass circuit and the working fluid contained in the expansion area, to form a pre-heating means (15). The inlet region (22) has: o at least a first internal opening emerging into an expansion area and o a second internal opening emerging into the bypass circuit, controlled by the valve (9).

IPC 8 full level
F01D 25/10 (2006.01); **F01B 27/04** (2006.01); **F01K 7/36** (2006.01)

CPC (source: EP)
F01D 25/10 (2013.01); **F01K 7/36** (2013.01)

Citation (search report)
See references of WO 2018229404A1

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)
WO 2018229368 A1 20181220; EP 3638887 A1 20200422; EP 3638888 A1 20200422; FR 3067385 A1 20181214; FR 3067385 B1 20210521; FR 3067439 A1 20181214; WO 2018229404 A1 20181220

DOCDB simple family (application)
FR 2018051071 W 20180427; EP 18726521 A 20180427; EP 18736997 A 20180611; FR 1755260 A 20170613; FR 1855054 A 20180611; FR 2018051347 W 20180611