

Title (en)

A TANK PRESSURE REGULATION SYSTEM FOR A WASTE HEAT RECOVERY SYSTEM

Title (de)

TANKDRUCKREGELSYSTEM FÜR EIN ABWÄRMERÜCKGEWINNUNGSSYSTEM

Title (fr)

SYSTÈME DE RÉGULATION DE PRESSION DE RÉSERVOIR POUR UN SYSTÈME DE RÉCUPÉRATION DE CHALEUR PERDUE

Publication

EP 3879082 A1 20210915 (EN)

Application

EP 20162674 A 20200312

Priority

EP 20162674 A 20200312

Abstract (en)

The disclosed subject matter generally relates to a tank pressure regulation system that can provide for more efficient recovery of work in waste heat recovery system. The tank pressure regulation system comprises a compressor comprising an inlet for withdrawing gas and an outlet for providing pressurized gas, and a valve arrangement connectable in fluid communication with the expansion tank and with the inlet and outlet of the compressor. The valve arrangement is responsive to a control signal to alternately connect the outlet of the compressor to the expansion tank to thereby increase the pressure in the expansion tank, and connect the inlet of the compressor to the expansion tank to withdraw gas from the expansion tank to thereby reduce the pressure in the expansion tank. The pressure in the expansion tank is regulated based on the condensation temperature of the working fluid.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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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

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