

Title (en)

SYSTEM TO PERFORM A VAPOR COMPRESSION REFRIGERATION CYCLE USING WATER AS THE REFRIGERANT

Title (de)

SYSTEM ZUR DURCHFÜHRUNG EINES DAMPFKOMPRESSIONSKÄLTEZYKLUS MIT WASSER ALS KÄLTEMITTEL

Title (fr)

SYSTÈME PERMETTANT D'EFFECTUER UN CYCLE DE RÉFRIGÉRATION PAR COMPRESSION DE VAPEUR UTILISANT DE L'EAU EN TANT QUE FLUIDE FRIGORIGÈNE

Publication

**EP 2668455 B1 20191120 (EN)**

Application

**EP 12702694 A 20120123**

Priority

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- US 2012022180 W 20120123

Abstract (en)

[origin: WO2012102992A2] A system to perform a vapor compression refrigeration cycle using water as the refrigerant is provided and includes an evaporator to output water vapor having a water vapor temperature of a first temperature and a water vapor pressure of a first pressure, a condenser to output liquid water at a second temperature, which is higher than the first temperature, and a second pressure, which is higher than the first pressure and a compressor, operably disposed downstream from the evaporator and upstream from the condenser, to compress the water vapor to thereby increase the water vapor temperature from the first temperature and to thereby increase the water vapor pressure from the first pressure by at least a 7:1 ratio.

IPC 8 full level

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CPC (source: EP US)

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