

Title (en)

PROCESS FOR THROTTLING A COMPRESSED GAS FOR EVAPORATIVE COOLING

Title (de)

VERFAHREN ZUR DROSSELUNG EINES KOMPRIMIERTEN GASES FÜR VERDUNSTUNGSKÜHLUNG

Title (fr)

PROCÉDÉ D'ÉTRANGLEMENT D'UN GAZ COMPRIMÉ EN VUE D'UN REFROIDISSEMENT PAR ÉVAPORATION

Publication

EP 2609379 A4 20160727 (EN)

Application

EP 11820339 A 20110729

Priority

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Abstract (en)

[origin: WO2012027063A1] A system and method of cooling a compressed working fluid is disclosed. The method includes compressing the working fluid above its critical pressure point in a compression stage to generate a compressed working fluid at or about local ambient temperature. The compressed working fluid can be cooled to below ambient by throttling a portion of the compressed working fluid to its saturated liquid-vapor state to generate a recycle working fluid. The recycle working fluid may then be atomized using an atomizing nozzle whereby the recycle working fluid evaporates and cools working fluid entering a target compression stage.

IPC 8 full level

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Citation (search report)

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- See references of WO 2012027063A1

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