

Title (en)

SYSTEM AND METHOD TO INTEGRATE CONDENSED WATER WITH IMPROVED COOLER PERFORMANCE

Title (de)

SYSTEM UND VERFAHREN ZUR INTEGRATION VON KONDENSWASSER MIT VERBESSERTER KÜHLERLEISTUNG

Title (fr)

SYSTÈME ET PROCÉDÉ D'INTÉGRATION D'EAU CONDENSÉE À PERFORMANCE DE REFROIDISSEMENT AMÉLIORÉE

Publication

**EP 3500810 A1 20190626 (EN)**

Application

**EP 17749784 A 20170727**

Priority

- US 201662375705 P 20160816
- US 2017044103 W 20170727

Abstract (en)

[origin: US2018051929A1] A method and system for cooling a process fluid is disclosed. An inlet air stream of a turbine is cooled with an inlet air cooling system. Moisture contained in the cooled inlet air stream is condensed and separated from the cooled inlet air stream to produce a water stream in an open-loop circuit. The water stream is sprayed into an air cooler air stream. The combined air cooler air stream and sprayed water stream is directed through an air cooler. Heat is exchanged between the process fluid and the combined air cooler air stream and sprayed water stream to thereby condense, chill, or sub-cool the process fluid.

IPC 8 full level

**F25J 1/00** (2006.01)

CPC (source: EP KR US)

**F02C 6/00** (2013.01 - EP KR US); **F02C 7/143** (2013.01 - EP KR US); **F25J 1/0022** (2013.01 - EP KR US); **F25J 1/0052** (2013.01 - EP KR US); **F25J 1/0055** (2013.01 - EP KR US); **F25J 1/0087** (2013.01 - EP KR US); **F25J 1/0216** (2013.01 - EP KR US); **F25J 1/0235** (2013.01 - KR US); **F25J 1/0236** (2013.01 - EP KR US); **F25J 1/0283** (2013.01 - EP KR US); **F25J 1/0292** (2013.01 - EP KR US); **F25J 1/0294** (2013.01 - EP KR US); **F25J 1/0296** (2013.01 - EP KR US); **F25J 1/0297** (2013.01 - KR US); **F25J 3/0233** (2013.01 - KR US); **F05D 2260/608** (2013.01 - EP US); **F25J 2210/60** (2013.01 - KR US); **F25J 2215/60** (2013.01 - KR US); **F25J 2215/62** (2013.01 - KR US); **F25J 2215/64** (2013.01 - KR US); **F25J 2215/66** (2013.01 - KR US); **F25J 2220/64** (2013.01 - EP KR US); **F25J 2270/902** (2013.01 - KR US)

Citation (search report)

See references of WO 2018034816A1

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)

**US 2018051929 A1 20180222**; AU 2017313698 A1 20190207; CA 3033179 A1 20180222; CN 109564058 A 20190402; EP 3500810 A1 20190626; JP 2019531454 A 20191031; KR 20190040023 A 20190416; SG 11201900579W A 20190227; WO 2018034816 A1 20180222

DOCDB simple family (application)

**US 201715661315 A 20170727**; AU 2017313698 A 20170727; CA 3033179 A 20170727; CN 201780049990 A 20170727; EP 17749784 A 20170727; JP 2019508887 A 20170727; KR 20197007649 A 20170727; SG 11201900579W A 20170727; US 2017044103 W 20170727