

Title (en)
HEAT EXCHANGE SYSTEM HAVING AN INTEGRATED SUB-COOLER

Title (de)
WÄRMEAUSTAUSCHSYSTEM MIT INTEGRIERTEM UNTERKÜHLER

Title (fr)
SYSTÈME D'ÉCHANGE DE CHALEUR COMPORTANT UN REFROIDISSEUR SECONDAIRE INTÉGRÉ

Publication
EP 3511536 A1 20190717 (EN)

Application
EP 18290005 A 20180110

Priority
EP 18290005 A 20180110

Abstract (en)
A heat exchange system includes a casing enclosing a cavity therein, and a first heat exchange device configured to channel a first heat absorbing fluid therethrough and extending longitudinally within the cavity. Steam received within the cavity is condensable via thermal communication with the first heat absorbing fluid to form a first exhaust stream. The heat exchange system also includes a sub-cooler configured to channel a sub-cooler fluid therethrough and extending longitudinally within the cavity. The sub-cooler is positioned beneath the first heat exchange device such that the first exhaust stream is receivable into thermal communication with the sub-cooler fluid. In some embodiments, the sub-cooler includes a housing that includes a flat topmost surface. Additionally or alternatively, the heat exchange system includes an anti-flash plate that extends longitudinally within the casing between the upper portion and the lower portion of the cavity.

IPC 8 full level
F01K 9/00 (2006.01)

CPC (source: EP)
F01K 9/003 (2013.01)

Citation (search report)
• [A] EP 2617952 A2 20130724 - BALCKE DUERR GMBH [DE]
• [A] DE 102011122099 A1 20120628 - CUMMINS IP INC [US]
• [A] US 2009293478 A1 20091203 - TAKAHASHI FUMIO [JP], et al

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)
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