

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

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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

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