

Title (en)
HEAT EXCHANGER UTILIZING TUBULAR STRUCTURES HAVING INTERNAL FLOW ALTERING MEMBERS AND EXTERNAL CHAMBER ASSEMBLIES

Title (de)
WÄRMETAUSCHER MIT SCHLAUCHARTIGEN STRUKTUREN MIT INTERNEN FLUSSEÄNDERUNGSELEMENTEN UND EXTERNEN KAMMERANORDNUNGEN

Title (fr)
ÉCHANGEUR DE CHALEUR QUI UTILISE DES STRUCTURES TUBULAIRES QUI COMPORTENT DES ÉLÉMENTS MODIFIANT L'ÉCOULEMENT INTERNE ET DES ENSEMBLES CHAMBRES EXTERNES

Publication
EP 2812642 A1 20141217 (EN)

Application
EP 13854762 A 20131015

Priority
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• US 2013065070 W 20131015

Abstract (en)
[origin: US2014131022A1] A heat exchanger includes at least one cylindrical tubular member formed from a tubular structure and chamber assemblies. A plurality of flow altering members are coupled at predetermined intervals within the tubular structure. The flow altering members have an angled surface on their respective sides facing the flow of a heat exchange medium. Pairs of inlet orifices and outlet orifices are formed on the wall of the tubular structure at the same intervals as the flow altering members. Chamber assemblies are coupled as a full or partial collar on the exterior of the tubular structure. Each chamber assembly is hollow, permitting fluid flow within, and is in fluid communication with a corresponding inlet orifice, outlet orifice pair so that the heat exchange medium repeatedly flows out of the tubular structure into a chamber assembly and back into the tubular structure. Multiple cylindrical tubular members may be coupled between manifolds.

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US 2014131022 A1 20140515; AU 2013345262 A1 20140807; BR 112014017373 A2 20170613; BR 112014017373 A8 20170704; CA 2861828 A1 20140522; CN 104169673 A 20141126; EP 2812642 A1 20141217; EP 2812642 A4 20151223; HK 1204358 A1 20151113; JP 2015511001 A 20150413; KR 20140110968 A 20140917; MX 2014008510 A 20140821; PH 12014501489 A1 20140922; US 2015219409 A1 20150806; WO 2014078001 A1 20140522

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