

Title (en)
HYBRID TUBE BUNDLE EVAPORATOR

Title (de)
HYBRIDROHRBÜNDELVERDAMPFER

Title (fr)
ÉVAPORATEUR DE FAISCEAU DE TUBES HYBRIDE

Publication
EP 3748270 B1 20220817 (EN)

Application
EP 20175886 A 20200521

Priority
IT 201900008127 A 20190605

Abstract (en)
[origin: EP3748270A1] A tube bundle evaporator longitudinally extending along a horizontal axis, comprising a shell, a tube bundle housed inside said shell, a shell-side refrigerant fluid, a tube-side refrigerated fluid, a lower zone of said evaporator flooded by the refrigerant fluid in the liquid state and containing a first number of tubes of said tube bundle, a process fluid distributor positioned in an upper zone of said evaporator, a second number of tubes of said tube bundle positioned outside said flooded lower zone, and at least one outlet of refrigerant fluid in the gaseous state from the shell, comprising, inside the shell, a tortuous circuit for the refrigerant fluid which vaporises on contact with said second number of tubes comprising at least one descending portion of circuit.

IPC 8 full level
F28D 7/16 (2006.01); **F25B 39/02** (2006.01); **F28D 3/04** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP)
F25B 39/028 (2013.01); **F28D 3/04** (2013.01); **F28D 7/1607** (2013.01); **F28F 9/22** (2013.01); **F28D 2021/0071** (2013.01)

Cited by
IT202100029945A1; WO2023095025A1; CN115756031A; WO2023095023A1; IT202100030026A1

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

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