

Title (en)
CONDENSATION PLANT

Title (de)
KONDENSATIONSANLAGE

Title (fr)
INSTALLATION DE CONDENSATION

Publication
EP 4384766 A1 20240619 (DE)

Application
EP 23726456 A 20230508

Priority
• DE 102022111503 A 20220509
• DE 2023100331 W 20230508

Abstract (en)
[origin: WO2023217319A1] The invention relates to a condensation plant (1) with upwardly directed tube bundles (10, 11) for condensing steam, with the following features: a) an air chamber has an upwardly widening trapezoidal cross section with an upper side, a lower side and with two longitudinal sides which are inclined in opposite directions with respect to a vertical V and are formed by the two bundles (10, 11), and end sides (30) which are impermeable for cooling air; b) the upper side has at least one outlet opening for heated cooling air, wherein a fan (18) is situated in the outlet opening, which fan is configured to suck colder cooling air, coming from the outside, through the tube bundles (10, 11) into the air chamber (14); c) the tube bundles (10, 11) have heat exchanger tubes which are connected with their ends to steam distributor lines (8, 9) and to condensate collecting lines (12, 13), wherein one of the steam distributor lines (8, 9) and one of the condensate collecting lines (12, 13) are arranged on each of the two longitudinal sides; d) the tube bundles (10, 11) are each at an angle W1 in a range of from 12° to 18° with respect to a vertical V, wherein the tube bundles (10, 11) run at a first spacing from one another at the steam distributor lines (8, 9) and run at a second spacing A2 from one another at the condensate collecting lines (12, 13), wherein the second spacing is at least 1/3 of the first spacing A1.

IPC 8 full level
F28B 1/00 (2006.01)

CPC (source: EP)
F28B 1/06 (2013.01)

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102022111503 A1 20231109; AU 2023266966 A1 20240411; CN 118140106 A 20240604; EP 4384766 A1 20240619; KR 20240093909 A 20240624; WO 2023217319 A1 20231116

DOCDB simple family (application)
DE 102022111503 A 20220509; AU 2023266966 A 20230508; CN 202380014133 A 20230508; DE 2023100331 W 20230508; EP 23726456 A 20230508; KR 20247017293 A 20230508