

Title (en)

CONDENSER FOR DRYING DEVICE, AND DRYING DEVICE

Title (de)

KONDENSATOR FÜR TROCKNUNGSVORRICHTUNG UND TROCKNUNGSVORRICHTUNG

Title (fr)

CONDENSEUR POUR DISPOSITIF DE SÉCHAGE, ET DISPOSITIF DE SÉCHAGE

Publication

EP 4296423 A4 20240724 (EN)

Application

EP 22770185 A 20220118

Priority

- CN 202110292988 A 20210318
- CN 2022072578 W 20220118

Abstract (en)

[origin: EP4296423A1] A condenser for a drying device, and a drying device. A water stop structure (5) is provided on a side wall of a hollow chamber of the condenser to break up a cooling water flow into spray; moreover, a first arc-shaped structure (11), a second arc-shaped structure (12), and a flow distribution structure (13) are provided on a front side wall; a left side wall (14) and a right side wall (15) of the hollow chamber are both configured to be arc-shaped; air entering from an air inlet (3) is divided into a first airflow (7) and a second airflow (8), which then rotationally rise. The travel paths of the first airflow (7) and the second airflow (8) in the body of the condenser become longer, and thus, the cooling effect can be improved; the two airflows rising rotationally carry the cooling spray formed by breakup to form "cyclone"-like spray in the condenser, by controlling the amount of cooling water, vortex-like spray having a certain liquid level is formed in the condenser, and when the airflows pass here, lint is trapped in the spray; the bottom of the condenser is flushed in real time by means of the continuously moving spray, and thus, the lint filtering effect can be improved.

IPC 8 full level

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CPC (source: CN EP US)

D06F 58/22 (2013.01 - CN); **D06F 58/24** (2013.01 - CN EP US); **D06F 58/30** (2020.02 - US)

Citation (search report)

- [I] CN 105544166 A 20160504 - HISENSE (SHANDONG) REFRIGERATOR CO LTD
- [A] CN 110093765 A 20190806 - QINGDAO HAIER DRUM WASHING MACHINE CO LTD
- [A] WO 2007065831 A1 20070614 - ARCELIK AS [TR], et al
- [A] WO 2012062677 A1 20120518 - ARCELIK AS [TR], et al
- See also references of WO 2022193825A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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