

Title (en)
CLOTHES DRYING DEVICE AND CLOTHES DRYING METHOD

Title (de)
WÄSCHETROCKNUNGSVORRICHTUNG UND WÄSCHETROCKNUNGSVERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE SÉCHAGE DE VÊTEMENTS

Publication
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Application
EP 16874706 A 20161124

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Abstract (en)
A clothes drying device and a method for drying clothes applying the device are provided. The clothes drying device comprises a drum body (1) for accommodating clothes, an air duct (2) for allowing air to flow and be dried and a condensing module and a semiconductor module. The condensing module (3) comprises a heat absorbing portion and a heat releasing portion, the heat portion is arranged in the air duct (2) to absorb heat from air in the drum body (1) and to preliminarily condense moisture of air; the heat releasing portion is arranged outside the air duct (2) to dissipate the heat absorbed by the heat absorbing portion to outside of the clothes drying device. The semiconductor module (4) is arranged outside the air duct (2) and comprises a cold end (41) and a hot end (42), the cold end (41) re-condenses moisture of air preliminarily condensed by the condensing module (3), the hot end (42) heats the re-condensed air. The condensation way completely utilizes the heat transfer principle and the principle of phase transition, and can cooperate with the semiconductor module without a cold source to achieve an optimal effect of air condensation and heating.

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