

Title (en)  
HEAT EXCHANGE TUBE, HEAT EXCHANGER AND HEAT PUMP UNIT

Title (de)  
WÄRMETAUSCHERROHR, WÄRMETAUSCHER UND WÄRMEPUMPENEINHEIT

Title (fr)  
TUBE D'ÉCHANGE DE CHALEUR, ÉCHANGEUR DE CHALEUR ET UNITÉ DE POMPE À CHALEUR

Publication  
**EP 3736521 B1 20230906 (EN)**

Application  
**EP 18917408 A 20181214**

Priority  
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• CN 2018121202 W 20181214

Abstract (en)  
[origin: EP3736521A1] The present disclosure relates to a heat exchange tube, a heat exchanger and a heat pump unit. The heat exchange tube includes a tube body and a fin arranged on an outer surface of the tube body, wherein the fin includes: a fin root part, arranged on the outer surface of the tube body; a transverse fin part, arranged on the top of the fin root part and extending laterally from two sides of the fin root part; and a fin top part, arranged on the top of the transverse fin part and constructed as a saw-toothed part, a concave portion of the saw-toothed part extending to the transverse fin part. The present disclosure is beneficial to enlarging a heat exchange area of the fin top part and thinning a liquid film; the saw-toothed fin top part is favorable for refrigerant flowing, thereby enhancing condensation property; and the transverse fin part extends laterally from the two sides of the fin to form a lower layer of channel and an upper layer of channel beneficial to evaporation and condensation, such that the heat exchange tube has both evaporation and condensation properties.

IPC 8 full level  
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