

Title (en)  
COOLING APPARATUS FOR DEFROSTING

Title (de)  
KÜHLVORRICHTUNG ZUM ABTAUEN

Title (fr)  
APPAREIL DE REFROIDISSEMENT POUR LE DÉGIVRAGE

Publication  
**EP 3527917 A1 20190821 (EN)**

Application  
**EP 18157172 A 20180216**

Priority  
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Abstract (en)  
The present invention refers to a cooling apparatus for defrosting after detecting frost. The cooling apparatus according to the present invention preferably comprises of an evaporator 1, an evaporator coil 2, a compressor 4, a condenser 5, a condenser coil 6 and a receiver dryer 7. The cooling apparatus further includes plurality of bimetals 3, wherein the bimetals 3 are placed on the evaporator coil 2. The bimetals 3 are activated by applying voltage from a power supply 10. The bimetals 3 are configured to bend according to the application of voltage and thereby applying pressure on frosted surface formed on the evaporator coil 2 and breaking the ice formed on the evaporator coil 2.

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CPC (source: EP)  
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Citation (applicant)  
• US 4741175 A 19880503 - SCHULZE JAMES L [US]  
• US 6266969 B1 20010731 - MALNATI ROBERTO [IT], et al

Citation (search report)  
• [YA] WO 2017192568 A1 20171109 - CARRIER CORP [US]  
• [YA] RU 2193933 C2 20021210 - RAKETNO KOSM AOOT, et al  
• [A] EP 3012187 A1 20160427 - BOEING CO [US]  
• [A] WO 2006081180 A2 20060803 - TRUSTEES OF DARTMOUTH COLLEGE [US], et al  
• [A] DE 7507775 U  
• [A] DD 117279 A1 19760105

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