

Title (en)  
ELECTRIC HEATING DEVICE

Title (de)  
ELEKTRISCHES HEIZGERÄT

Title (fr)  
APPAREIL DE CHAUFFAGE ÉLECTRIQUE

Publication  
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Application  
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Abstract (en)

[origin: WO2018215196A1] The invention relates to an electrical air-heating device, in particular for a motor vehicle, comprising at least a first metal layer (10), a second metal layer (11), and a polymer layer (12), the polymer layer (12) containing a polymer component and containing a conductive carbon component and being arranged between the first and second metal layers, air channels (13) for conducting the air to be heated being provided, which extend from a first side of the polymer layer (12) facing the first metal layer (10) to a second side of the polymer layer (12) facing the second metal layer (11).

IPC 8 full level  
**B60H 1/22** (2006.01); **B60H 1/00** (2006.01); **F24H 3/04** (2006.01); **H05B 3/14** (2006.01); **H05B 3/22** (2006.01)

CPC (source: EP KR US)

**B29C 45/0001** (2013.01 - US); **B29C 45/14639** (2013.01 - US); **B60H 1/2218** (2013.01 - US); **B60H 1/2221** (2013.01 - EP); **B60H 1/2225** (2013.01 - EP US); **F24H 1/009** (2013.01 - US); **F24H 1/103** (2013.01 - EP KR US); **F24H 1/121** (2013.01 - EP KR US); **F24H 1/202** (2013.01 - US); **F24H 3/04** (2013.01 - EP US); **F24H 3/0429** (2013.01 - EP KR US); **H05B 1/0236** (2013.01 - US); **H05B 3/06** (2013.01 - US); **H05B 3/145** (2013.01 - US); **H05B 3/146** (2013.01 - EP KR US); **H05B 3/18** (2013.01 - US); **H05B 3/20** (2013.01 - EP US); **H05B 3/22** (2013.01 - EP); **H05B 3/26** (2013.01 - EP); **H05B 3/286** (2013.01 - US); **H05B 3/50** (2013.01 - EP); **H05B 3/565** (2013.01 - EP); **H05B 3/82** (2013.01 - US); **B29K 2307/04** (2013.01 - US); **B29K 2995/0005** (2013.01 - US); **B29L 2031/779** (2013.01 - US); **B60H 2001/00128** (2013.01 - EP US); **B60H 2001/2271** (2013.01 - EP); **F24H 1/202** (2013.01 - EP); **F24H 2250/04** (2013.01 - EP KR US); **H05B 2203/003** (2013.01 - US); **H05B 2203/017** (2013.01 - US); **H05B 2203/02** (2013.01 - EP KR US); **H05B 2203/021** (2013.01 - EP KR US); **H05B 2203/023** (2013.01 - EP KR US); **H05B 2203/024** (2013.01 - US); **H05B 2214/04** (2013.01 - EP KR US)

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DOCDB simple family (application)

**DE 102017121063 A 20170912**; CN 201880034338 A 20180523; CN 201880034356 A 20180523; CN 201880034357 A 20180508; CN 201880034422 A 20180523; CN 201880034427 A 20180523; CN 201880034457 A 20180523; CN 201880034459 A 20180523; CN 201880034461 A 20180524; CN 201880034605 A 20180508; DE 102017121038 A 20170912; DE 102017121039 A 20170912; DE 102017121040 A 20170912; DE 102017121041 A 20170912; DE 102017121042 A 20170912; DE 102017121045 A 20170912; DE 102017121060 A 20170912; DE 102017121062 A 20170912; DE 102017121064 A 20170912; EP 18727167 A 20180508; EP 18727168 A 20180508; EP 18728811 A 20180523; EP 18728812 A 20180523; EP 18728813 A 20180523; EP 18728814 A 20180523; EP 18728815 A 20180523; EP 18728816 A 20180523; EP 18728818 A 20180523; EP 18728826 A 20180524; EP 2018061796 W 20180508; EP 2018061803 W 20180508; EP 2018061813 W 20180508; EP 2018063494 W 20180523; EP 2018063497 W 20180523; EP 2018063499 W 20180523; EP 2018063500 W 20180523; EP 2018063508 W 20180523; EP 2018063513 W 20180523; EP 2018063516 W 20180523; EP 2018063521 W 20180523; EP 2018063726 W 20180524; JP 2019558687 A 20180523; JP 2019564513 A 20180508; JP 2019564516 A 20180523; JP 2021172250 A 20211021; KR 20197032550 A 20180523; KR 20197033754 A 20180508; KR 20197034025 A 20180523; US 201816610791 A 20180523; US 201816614921 A 20180523;

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US 201816615729 A 20180523; US 201816615742 A 20180523; US 201816615752 A 20180508