

Title (en)  
USB COMMUNICATION TERMINAL

Title (de)  
USB-KOMMUNIKATIONSENDGERÄT

Title (fr)  
BORNE DE COMMUNICATION USB

Publication  
**EP 3046183 A4 20161012 (EN)**

Application  
**EP 14859020 A 20141029**

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Abstract (en)  
[origin: EP3046183A1] The present invention relates to a USB communications terminal, and in particular, to a data card. The USB communications terminal includes a USB connector and a printed circuit board PCB, where the USB connector includes a metal housing, a radio-frequency signal feedpoint is disposed on the PCB, and the radio-frequency signal feedpoint is electrically coupled with the metal housing. According to the USB communications terminal in the present invention, a radio-frequency signal feedpoint is electrically coupled with a metal housing of a USB connector, so that the metal housing of the USB connector is used as an antenna or a part of an antenna of the USB communications. Therefore, no antenna needs to be additionally designed on the USB communications terminal, thereby saving space of the USB communications terminal and also reducing costs.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
• [X] US 2011193756 A1 20110811 - CHENG SHIH-CHIEH [TW], et al  
• [X] CN 101964475 A 20110202 - EDIMAX TECHNOLOGY CO LTD  
• [X] US 2010164835 A1 20100701 - TAI LUNG-SHENG [TW], et al  
• [IA] US 2011043413 A1 20110224 - ZADESKY STEPHEN P [US], et al  
• [A] US 2013189936 A1 20130725 - LI XI [JP], et al  
• See references of WO 2015062508A1

Cited by  
WO2019101527A1

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Designated extension state (EPC)  
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