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(19) **United States**(12) **Patent Application Publication**
TAO(10) **Pub. No.: US 2022/0360096 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **ELECTRONIC DEVICE AND ACCESSORY
WITH QUICK CHARGING AND AUDIO
TRANSMISSION FUNCTIONS****G06F 1/26** (2006.01)**G06F 3/16** (2006.01)(52) **U.S. CL.****CPC** **H02J 7/00034** (2020.01); **H01R 31/065**(2013.01); **H02J 7/007** (2013.01); **G06F 1/266**(2013.01); **G06F 3/162** (2013.01)(71) Applicant: **SHANGHAI YAOHUO
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Shanghai (CN)(72) Inventor: **Hongxia TAO**, Shanghai (CN)(21) Appl. No.: **17/295,209**(22) PCT Filed: **Nov. 16, 2020**(86) PCT No.: **PCT/CN2020/129081**

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The present invention provides an electronic device and an accessory with quick charging and audio transmission functions. The electronic device can be respectively connected to a charger and an audio connector through the accessory. The electronic device includes a quick charging controller and a device Type-C female socket. The quick charging controller is used for performing quick charging protocol communication by utilizing the SBU pins of the device Type-C female socket and the D+ pin and the D- pin of a charger connected to the accessory when the accessory is connected to the device Type-C female socket and the charger is connected to the accessory. The present invention breaks through the usual thought of using the CC pin to perform quick charging protocol communication in the existing quick charging mode. Further, when the accessory with the audio transmission function is used, the quick charging can also be performed.

