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YUAN et al.(10) **Pub. No.: US 2023/0230780 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **PASSIVE TRIGGERED-POWER
ELECTRONIC TAP-CHANGER DEVICE AND
CONTACT DEVICE**(86) PCT No.: **PCT/CN2021/091943**

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ABSTRACT

Disclosed are a passive triggered-power electronic tap-changer device and a contact device. The power electronic tap-changer device comprises: two taps, a main contact, two auxiliary contacts, two trigger contacts, an output terminal, two thyristors, and four voltage divider resistors, which can achieve the passive triggering of a power electronic switch by means of controlling the auxiliary contacts and the trigger contacts. Provided in the present invention is a contact device for the passive triggered-power electronic tap-changer, comprising: at least two stationary contacts, a main contact, two thyristor trigger contacts, two thyristor auxiliary contacts, and a drive shaft, wherein the main contact, the thyristor trigger contacts, and the thyristor auxiliary contacts are fixed to the drive shaft, the contact device can switch the power electronic switch to different stationary contacts by means of controlling the rotation of the drive shaft, and maintains the switching time sequence of passive triggering.

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