



US 20230230786A1

(19) **United States**(12) **Patent Application Publication**
MANEV et al.(10) **Pub. No.: US 2023/0230786 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **SYSTEM FOR CONTROLLING A VACUUM INTERRUPTER FOR A POWER DIVERTER SWITCH, A POWER DIVERTER SWITCH AND AN ON-LOAD TAP CHANGER****Publication Classification**(51) **Int. Cl.****H01H 33/666** (2006.01)**H01H 9/00** (2006.01)(52) **U.S. Cl.****CPC** **H01H 33/666** (2013.01); **H01H 9/0038** (2013.01); **H01H 2033/6667** (2013.01)(71) Applicant: **Hitachi Energy Switzerland AG,**
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Baden (CH)(21) Appl. No.: **18/023,458**(22) PCT Filed: **Aug. 24, 2021**(86) PCT No.: **PCT/EP2021/073380**

§ 371 (c)(1),

(2) Date: **Feb. 27, 2023**(30) **Foreign Application Priority Data**

Oct. 26, 2020 (EP) 20203858.4

(57) **ABSTRACT**

A system for controlling a vacuum interrupter for a power diverter switch comprises a main driving shaft which is configured to drive the control cam. The system further comprises the vacuum interrupter which is configured to separate electrical contacts in a vacuum by use of a contact rod, and a transmission unit which is configured to transmit the force generated by the main driving shaft to the contact rod. The transmission unit comprises a plurality of rollable guiding elements and a lever mechanism which is coupled to both the control cam and the contact rod of the vacuum interrupter such that a rotation of the control cam generated by the main driving shaft causes a movement of the contact.

