

# (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2024/0213756 A1 Ionescu

### (43) **Pub. Date:**

## Jun. 27, 2024

#### (54) ARC FAULT SOLUTION FOR MULTIPLE **ELECTRIC DEVICES**

(71) Applicant: Innomotics GmbH, Nuremberg (DE)

(72) Inventor: Bogdan Cristian Ionescu, Carlsbad,

CA (US)

(73) Assignee: Innomotics GmbH, Nuremberg (DE)

(21) Appl. No.: 18/556,714

(22) PCT Filed: May 21, 2021

(86) PCT No.: PCT/US2021/033742

§ 371 (c)(1),

(2) Date: Oct. 23, 2023

#### **Publication Classification**

(51) Int. Cl. H02H 1/00 (2006.01)H02H 3/16 (2006.01)

(52) U.S. Cl. CPC ....... H02H 1/0023 (2013.01); H02H 3/165 (2013.01)

#### (57)**ABSTRACT**

An electric system (100) includes a plurality of electric devices (110), each electric device (110) having a cabinet (112), a common power source (130), each electric device (110) being electrically coupled to the common power source (130), wherein a first electric device (110-1) includes an arc fault rated cabinet (112-1) and an arc quenching device (114), and wherein, in an event of an electric arc occurring in any of the plurality of electric devices (110), energy of the are is transferred to the first electric device (110-1) and the arc quenching device (114) activated.

