



(10) **Pub. No.: US 2024/0237181 A9**  
(48) **Pub. Date: Jul. 11, 2024**  
**CORRECTED PUBLICATION**

continuation of application No. 16/235,186, filed on Dec. 28, 2018, now Pat. No. 11,116,068, which is a continuation of application No. PCT/CN2018/113812, filed on Nov. 2, 2018.

(30) **Foreign Application Priority Data**

Nov. 3, 2017 (CN) ..... 201711070608.1

## Publication Classification

(51) **Int. Cl.**

<i>H05G 1/12</i>	(2006.01)
<i>H02M 1/08</i>	(2006.01)
<i>H02M 3/00</i>	(2006.01)
<i>H02M 3/335</i>	(2006.01)
<i>H02M 3/337</i>	(2006.01)

(52) U.S. Cl.

CPC ..... ***H05G 1/12*** (2013.01); ***H02M 1/081***  
(2013.01); ***H02M 3/01*** (2021.05); ***H02M***  
***3/33573*** (2021.05); ***H02M 3/3376*** (2013.01);  
***H02M 1/0009*** (2021.05); ***Y02B 70/10***  
(2013.01)

(21) Appl. No.: 18/401,649

(22) Filed: **Jan. 1, 2024**

### Prior Publication Data

(15) Correction of US 2024/0138046 A1 Apr. 25, 2024  
See (30) Foreign Application Priority Data.

(65) US 2024/0138046 A1 Apr. 25, 2024

### Related U.S. Application Data

(63) Continuation of application No. 17/446,972, filed on Sep. 6, 2021, now Pat. No. 11,864,302, which is a

(57) **ABSTRACT**

A high voltage generator is provided. The high voltage generator includes an inverter bridge including a first bridge leg and a second bridge leg, a first resonant branch coupled in series to the first bridge leg, a transformer coupled in series between the first resonant branch and the second bridge leg, a second resonant branch coupled in series with the transformer, and a rectifier circuit coupled with the transformer for providing an output voltage to an X-ray source.

