

(12) **United States Patent**
Stark

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(54) **VOLTAGE MONITORING DEVICE**

(56) **References Cited**

(71) Applicant: **Samsung SDI Co., Ltd.**, Yongin-si,
Gyeonggi-do (KR)

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(72) Inventor: **Johann Stark**, Nestelbach bei Graz (AT)

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(73) Assignee: **Samsung SDI Co., Ltd.**, Yongin-si (KR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 537 days.

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(21) Appl. No.: **13/892,262**

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(74) *Attorney, Agent, or Firm* — Lewis Roca Rothgerber Christie LLP

(51) **Int. Cl.**
G01R 31/36 (2006.01)
H01M 10/48 (2006.01)

(57) **ABSTRACT**

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Device to monitor the voltage of battery cells. The device includes a control device, voltage taps configured to tap the voltages of the battery cells, a holding plate having a first holding plate part and a second holding plate part, and a stamped-out circuit having measuring lines configured to electrically connect the control device to the voltage taps, the stamped-out circuit being arranged in cut-outs of the first holding plate part and the cut-outs being covered by the second holding plate such that the measuring lines are fixedly positioned in the cut-outs.

(58) **Field of Classification Search**
CPC G01R 31/3606; G01R 31/3696; H01M 10/482
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See application file for complete search history.

19 Claims, 4 Drawing Sheets

