

(12) **United States Patent**  
**Danesh et al.**

(10) **Patent No.:** **US 9,411,003 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **CURRENT MEASUREMENT**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 740 days.

(21) Appl. No.: **13/684,213**

(22) Filed: **Nov. 22, 2012**

(65) **Prior Publication Data**

US 2013/0128396 A1 May 23, 2013

**Related U.S. Application Data**

(60) Provisional application No. 61/563,462, filed on Nov. 23, 2011.

(30) **Foreign Application Priority Data**

Nov. 24, 2011 (GB) ..... 1120295.9

(51) **Int. Cl.**

**H02H 3/00** (2006.01)  
**G01R 31/02** (2006.01)  
**G01R 19/00** (2006.01)  
**G01R 23/02** (2006.01)  
**H02H 3/32** (2006.01)  
**G01R 35/00** (2006.01)  
**G01R 21/06** (2006.01)

(52) **U.S. Cl.**

CPC ..... **G01R 31/025** (2013.01); **G01R 19/00** (2013.01); **G01R 23/02** (2013.01); **H02H 3/006** (2013.01); **H02H 3/32** (2013.01); **G01R 21/06** (2013.01); **G01R 35/005** (2013.01)

(58) **Field of Classification Search**

USPC ..... 361/42  
See application file for complete search history.

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(57) **ABSTRACT**

The present invention relates to current measurement apparatus. The current measurement apparatus comprises first and second measurement devices with each of the first and second measurement devices being operative to measure current in a respective one of a live conductor and a neutral conductor substantially simultaneously. The current measurement apparatus is operative to make plural different determinations in dependence on the substantially simultaneous current measurements.

**28 Claims, 23 Drawing Sheets**

