Title (en)

METHOD AND SYSTEM FOR CIRCUIT BREAKER CONDITION MONITORING

Title (de)

VERFAHREN UND SYSTEM ZUR ZUSTANDSÜBERWACHUNG EINES LEISTUNGSSCHALTERS

Title (fr)

PROCÉDÉ ET SYSTÈME DE SURVEILLANCE D'ÉTAT DE DISJONCTEUR

Publication

EP 3864424 A4 20220518 (EN)

Application

EP 18936444 A 20181009

Priority

CN 2018109525 W 20181009

Abstract (en)

[origin: WO2020073201A1] A method and system for circuit breaker condition monitoring are disclosed. The method comprises: obtaining an image of a circuit breaker(202); extracting from the image one or more features related to a state of the circuit breaker(204); comparing the extracted one or more features with benchmark data characterizing a predetermined state of the circuit breaker(206); determining a health condition of the circuit breaker based on the comparison(208).

IPC 8 full level

G06T 7/00 (2017.01); **G01J 5/00** (2022.01); **G01R 31/327** (2006.01)

CPC (source: EP US)

G06T 7/001 (2013.01 - EP US); **G06V 10/267** (2022.01 - EP US); **G06V 20/52** (2022.01 - EP US); G01R 31/3271 (2013.01 - EP); G06T 2207/20081 (2013.01 - EP); G06T 2207/20084 (2013.01 - EP); G06T 2207/30108 (2013.01 - EP); G06V 2201/06 (2022.01 - EP)

Citation (search report)

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- [XYI] HUDA A.S. NAZMUL ET AL: "Application of infrared thermography for predictive/preventive maintenance of thermal defect in electrical equipment", APPLIED THERMAL ENGINEERING, vol. 61, no. 2, 2 August 2013 (2013-08-02), GB, pages 220 - 227, XP055910983, ISSN: 1359-4311, DOI: 10.1016/j.applthermaleng.2013.07.028
- [Y] FEIZIFAR BEHNAM ET AL: "Condition monitoring of circuit breakers: Current status and future trends", 2017 IEEE INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING AND 2017 IEEE INDUSTRIAL AND COMMERCIAL POWER SYSTEMS EUROPE (EEEIC / I&CPS EUROPE), IEEE, 6 June 2017 (2017-06-06), pages 1 - 5, XP033117980, DOI: 10.1109/EEEIC.2017.7977751
- See references of WO 2020073201A1

Designated contracting state (EPC)

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