

Title (en)

MEASURING DEVICE FOR MEASURING ELECTRIC CURRENTS IN A FORCE-LOADED CURRENT CONDUCTOR

Title (de)

MESSVORRICHTUNG ZUM MESSEN ELEKTRISCHER STRÖME IN EINEM KRAFTBELASTETEN STROMLEITER

Title (fr)

DISPOSITIF DE MESURE POUR MESURER DES COURANTS ELECTRIQUES DANS UN CONDUCTEUR SOLLICITE PAR L'APPLICATION DE FORCES

Publication

**EP 0891557 A1 19990120 (DE)**

Application

**EP 97920538 A 19970324**

Priority

- DE 9700598 W 19970324
- DE 19613664 A 19960404

Abstract (en)

[origin: DE19613664A1] The force-loaded high-voltage lines (2) are interrupted electrically by a separator (3) which absorbs the forces in the lines. A current sensor arrangement (4) is electrically connected in parallel with the separator (3). The measuring signals are transmitted optically via a light guide (9) which is guided in a flexible insulator (6) at earth potential. The advantages afforded by the invention are a high level of safety with respect to earthquakes and good electrical isolation.

IPC 1-7

**G01R 15/14**

IPC 8 full level

**G01R 15/14** (2006.01); **G02B 6/44** (2006.01)

CPC (source: EP)

**G01R 15/146** (2013.01); **G02B 6/442** (2013.01)

Citation (search report)

See references of WO 9738320A1

Designated contracting state (EPC)

DE DK GB NL SE

DOCDB simple family (publication)

**DE 19613664 A1 19971009**; BR 9708496 A 19990803; CN 1215473 A 19990428; EP 0891557 A1 19990120; NO 984643 D0 19981002; NO 984643 L 19981203; WO 9738320 A1 19971016; ZA 972791 B 19971006

DOCDB simple family (application)

**DE 19613664 A 19960404**; BR 9708496 A 19970324; CN 97193693 A 19970324; DE 9700598 W 19970324; EP 97920538 A 19970324; NO 984643 A 19981002; ZA 972791 A 19970402