

Title (en)
ARRANGEMENT FOR POTENTIAL-FREE MEASUREMENT OF HIGH CURRENTS

Title (de)
ANORDNUNG ZUR POTENTIALFREIEN MESSUNG HOHER STRÖME

Title (fr)
DISPOSITIF POUR LA MESURE EXEMPTÉ DE POTENTIEL DE COURANTS ELEVES

Publication
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Application
EP 01987882 A 20011015

Priority
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Abstract (en)
[origin: WO233424A2] The invention relates to an arrangement comprising a current sensor, containing a bypass-branch (3) which is electrically connected in a parallel to a defined section of the current conductor (1) and a current probe (5) for measuring the current in the bypass-branch (3), a fixed dividing ratio for the current passing therethrough existing between the bypass-branch (3) and the bridged section of the current conductor (1). The dividing ratio and the electric resistance of the bypass-branch (3) are relatively high in comparison to the resistance of the bridged section of the current conductor (1), whereby the contact resistances (R_k) between the current conductor (1) and the bypass-branch (3) are negligible in relation to the resistance (R_{BY}) of the bypass-branch (3).

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Citation (search report)
See references of WO 0233424A2

Citation (examination)
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WO 0233424 A2 20020425; WO 0233424 A3 20021107; DE 10051138 A1 20020502; EP 1328818 A2 20030723

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