

Title (en)

DEVICE FOR THE CONTINUOUS CONTROL OF THE PHASE ANGLE IN ELECTRIC ENERGY TRANSMISSION INSTALLATIONS

Publication

**EP 0053413 B1 19841024 (DE)**

Application

**EP 81201254 A 19811110**

Priority

CH 893180 A 19801203

Abstract (en)

[origin: EP0053413A1] 1. A device for the continuous control of the phase angle in electric energy transmission installations a) comprising a controllable rectifier switching facility for continuously controlling this phase angle, characterised in b) that the energy transmission line (HL), the phase angle of which is to be influenced, is carried through the secondary winding of an add-transformer (ZT), c) that the primary side of this add-transformer is effectively connected via a phase-control facility (1; 4, 4' ... 7, 7'; 13 ... 16) for continuously adjusting the phase angle between the output voltage (UK) of an exciter transformer and the current or additional current (IZ) supplied to the primary winding of the add-on transformer (ZT) to the output of this exciter transformer (EZ), d) that the phase-control device is provided with a bridge circuit comprised of thyristors (4, 4' ... 7, 7') which are connected in antiparallel, e) and that the thyristors are controlled by a measurement/control signal (S) which determines the amplitude and phase relationship of the additional voltage (UZ), supplied to the primary side of the add-on transformer (ZT).

IPC 1-7

**G05F 1/20**

IPC 8 full level

**G05F 1/20** (2006.01); **G05F 1/30** (2006.01)

CPC (source: EP)

**G05F 1/20** (2013.01); **G05F 1/30** (2013.01)

Cited by

DE4135059A1; DE102010015276A1; FR3029034A1; EP0152002A1; US8552701B2; US6300747B1; WO2016083411A1; WO2010006397A3; WO9925061A1

Designated contracting state (EPC)

CH DE FR LI SE

DOCDB simple family (publication)

**EP 0053413 A1 19820609; EP 0053413 B1 19841024**; CA 1181806 A 19850129; DE 3166863 D1 19841129

DOCDB simple family (application)

**EP 81201254 A 19811110**; CA 391303 A 19811201; DE 3166863 T 19811110