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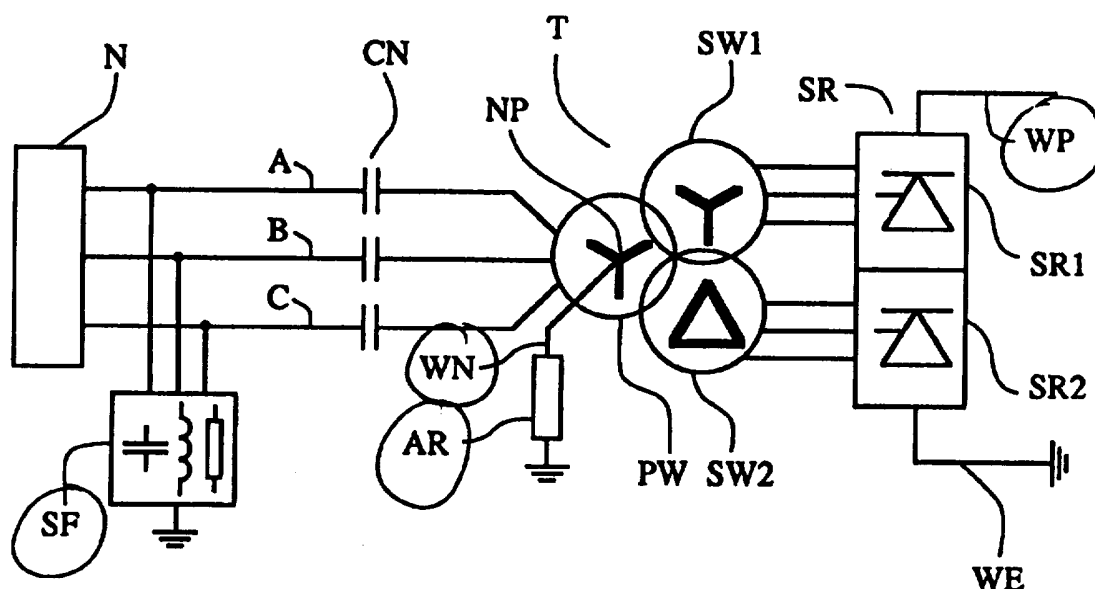
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(54) Title: SERIES-COMPENSATED CONVERTER STATION



(57) Abstract

A series-compensated converter station in an installation for transmission of high-voltage direct current is connected to an alternating-voltage network (N) with three phases (A, B, C, respectively). The converter station comprises at least two direct-voltage series-connected six-pulse converter bridges (SR1, SR2, respectively), a three-phase transformer coupling with two secondary windings (SW1, SW2, respectively), and a star-connected primary winding (PW) with a neutral point (NP) connected to ground as well as a series capacitor unit (CN) for each one of the three phases. Each one of the converter bridges is connected to a respective secondary winding and the primary winding is connected to the alternating-voltage network via the series-capacitor units. The transformer coupling exhibits a high impedance to zero-sequence currents through the primary winding of the transformer coupling.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 95/01020

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H02J 3/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H02H, H02J, H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, CLAIMS, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3942089 A (K.W. KANNGIESSER), 2 March 1976 (02.03.76), column 3, line 56 - column 4, line 2, figures 2a,b --	1,2,6,7
A	US 4769751 A (M. SCHRAUDOLPH ET AL.), 6 Sept 1988 (06.09.88), see the whole document --	1,2,6,7
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A	US 4816980 A (H. WIENDL), 28 March 1989 (28.03.89), column 4, line 49 - column 5, line 2, figure 1 --	1

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0128344 A1 (TRANSFORMATOREN UNION AKTIENGESELLSCHAFT), 19 December 1984 (19.12.84), abstract -- -----	3

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/96

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