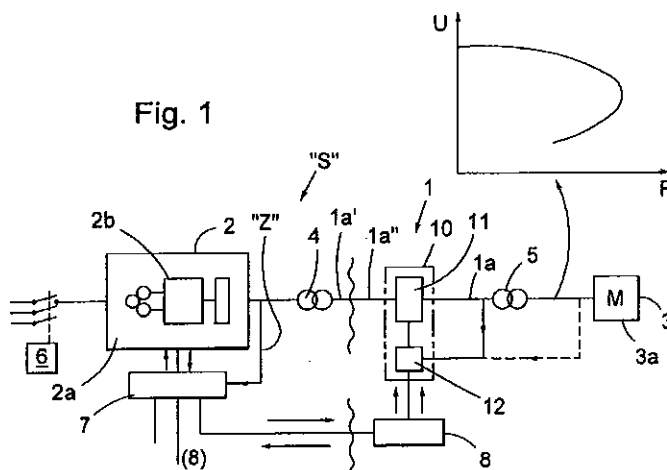


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(57) Abstract: The present invention refers to an arrangement (10), related to an electric power distribution system in the form of an offshore system (S), adapted for an electric power transmission from a power supplying means (2) in the form of a variable speed drive means (2a) to a consumer means (3) over a power transmission line (1), at least partly, in the form of an offshore cable section (1a), circuits (11) for compensating for and/or reducing generated resonance frequencies, depending upon said speed drive means (2a), a utilised transmission cable (1a) and the length of said cable, any transformer units (4, 5) adapted to said transmission line (1), said consumer means and/or a chosen frequency, said circuits (11) being adapted to enclose one or more primary parameters (resistance-, capacitance- and/or inductance-related components 11a, 11b, 11c). The present invention discloses the use of a control means (8) that is related to said circuit (11), said control means being adapted to control one or more dynamic components (11a, 11b, 11c), corresponding to one or more of said primary parameters, by changing said one or more dynamic components in dependence of momentary voltage and/or current values, detected at said consumer means (3) and/or adjacent said means.