

Title (en)  
ROTATING POWER SYSTEM STABILIZER

Title (de)  
ROTIERENDER STABILISATOR FÜR STROMSYSTEM

Title (fr)  
STABILISATEUR DE GENERATEUR ROTATIF

Publication  
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Application  
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Abstract (en)  
[origin: WO0067358A1] In the invention, electrical machines (2) with variable rotational speed are utilised as stabilisers in an electric power network. The motion of the rotor (10) corresponds to a certain kinetic energy, and this kinetic energy is used as energy storage for the stabiliser. The electrical machine (2) and its rotational speed are regulated by controlling the current that is sent through the rotor (10). The voltage source and the control means (18) for this are supplied by power from a source, which is independent of the voltage of the electric power network. The voltage source comprises preferably a brushless regulating machine (20) arranged at the same shaft (22) as the electrical main machine (2). By further directly monitoring temperatures in stator (14) and rotor (16) windings, the electrical main machine (2) may temporarily be utilised for large power transmissions, which by far exceed the nominal power.

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