

Title (en)

METHOD AND DEVICE FOR LIMITING MAKING CURRENT AND EXCESS POWER FROM AN ALTERNATING-CURRENT INDUCTION GENERATOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERSTROMBEGRENZUNG EINES WECHSELSTROMSYNCHRONGENERATORS

Title (fr)

PROCEDE ET DISPOSITIF LIMITANT LA PRODUCTION DE COURANT ET LA PUISSANCE EXCEDENTAIRE D'UN GENERATEUR DE COURANT ALTERNATIF A INDUCTION

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Application

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Abstract (en)

[origin: WO9950945A1] The invention comprises a technique for limiting the grid-connection current and surplus output of a wind turbine or a similar electricity-generating system for the utilisation of renewable energy where the electrical generator of the system is an alternating-current induction generator. The generator is coupled to the grid by means of a variable, electronically controlled electrical connector of the type based on thyristors whose acceptance angle plus the phase angle of the generator determine the actual degree of connection. The technique in the invention is special in that the generator is loaded with a variable, grid-independent dump-load during the connection process and otherwise during all other operating situations in which the generator yield is higher than desired with respect to grid compatibility. This dump-load is stepwise or continuously controlled within a relatively wide output range.

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