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DEVICE AND PROCESS OF CONTROL WITH BALLAST THREE-PHASE LOAD FOR AUTONOMOUS GENERATORS WITH REGENERABLE ENERGY SOURCES

Patent Number(s): RO126355-A2 ; RO126355-B1

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Derwent Primary Accession Number: 2011-G55807

Abstract: NOVELTY - The invention relates to a device and a process for frequency control with ballast three-phase load for electric generators with regenerable energy sources operating in autonomous micro arrays. According to the invention, the control device with ballast three-phase load comprises three branches of electric circuit, each branch consisting of a dissipation resistor (4, 5 and 6), where the power flow is controlled by means of a power transistor (7, 8 and 9) for each phase, the voltage in the ballast load input being rectified by a respective diode bridge (10, 11 and 12), each transistor (7, 8 and 9) being separately controlled by means of a PWM-signal control circuit of variable pulse duty factor, a null diode (13, 14 and 15) being provided in parallel with each transistor (7, 8 and 9), and an inductive-capacitive filter consisting of three coils (16) and three capacitors (17) achieving the interfacing with a three-phase micro array with four conductors (R, S, T, N). The claimed process consists in the frequency control and compensation of active power unbalance between the three phases of the micro array, by the action of some controllers upon the power transistor control PWM signals (CR, CS, CT).

International Patent Classification: H02P-009/42

Derwent Class Code(s): X13 (Switchgear, Protection, Electric Drives)

Derwent Manual Code(s): X13-G02X

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