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- (72) **Inventors; and**
- (71) **Applicants :** OŠEROVSKIS, Samuilas [LT/LT]; Aukstamiskio g. 17, Elektremj sav., LT-26128 Elektrenai (LT). OŠEROVSKIS, Michailas [LT/LT]; Kalvų g. 12, Vilniaus raj., LT-14266 Riese (LT). KHADJINOV, Alex-
andre [UA/UA]; Vinogradnaya street, 68A, Solnechnyi village, Zaporozhye region, Zaporozhye district, Solnechnyi village, 70417 (UA). KHADZHYNOV, Andriy [UA/UA]; Vinogradnaya street, 68, Solnechnyi village, Zaporozhye region, Zaporozhye district, Solnechnyi village, 70417 (UA).
- (74) **Agent:** ZABOLIENE, Reda; Business center VERTAS, Gyneju str. 16, LT-01 109 Vilnius (LT).
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(54) **Title:** POWER SYSTEMS INTERCONNECTION METHOD

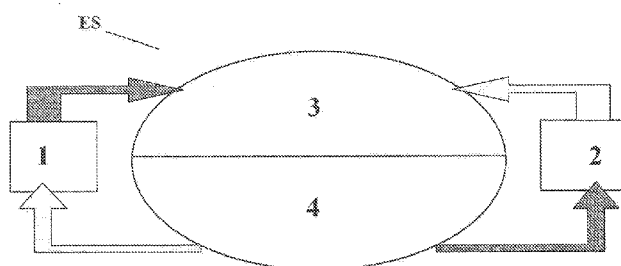


Fig. 1

→ - A
⇒ - B

(57) **Abstract:** The invention relates to electric power industry, in particular, to power systems with electrical alternating current networks, more specifically, to the methods of power systems interconnection. The basis of the present invention is the task to interconnect power systems with the help of the method that will allow to improve the reliability and quality of their functioning, as well as to minimize the financial costs associated with its implementation. The method of interconnection of power systems with AC networks, each of which is characterized by its technical characteristics of electricity through the use of at least one energy storage device (ES), which contains the equipment providing energy storage and its usage. According to the invention the equipment (3), providing energy storage and consuming electricity, is connected to one power system networks, and equipment (4) participating in the usage of stored energy and generating electricity is connected to the other power system networks, thus, ensuring possibility to change the position of these power systems.



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AMENDED CLAIMS

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1. The method of interconnection of power systems with different AC networks (with different characteristics like: period, amplitude, frequency and voltage of alternating electric current), each of which is characterized by its technical characteristics of electricity (ES), by using at least one energy storage device that contains the equipment that provides energy storage and its usage, **c h a r a c t e r i z e d i n** that the equipment (3) providing energy storage and consuming electricity, is connected to networks of one power system, and the equipment (4) participating in the usage of stored energy and generating electricity is connected to the other power system networks, where power systems can change their positions, and where there is no electrical connection (contact) between them (between systems)