

The electrical engineer **Anatol Evich Arkadij Stepanov** has **apparently discovered a method similar to the Holcombs for amplifying power using magnetic sheets**. He uses specially wired transformers and has filed several patents. His trick is to operate the magnetic high-permeability iron on the hysteresis characteristic by means of suitable circuitry in such a way that the reaction of the secondary side on the primary side is "decoupled". This means that the back EMF that is always to be expected according to Lenz's rule is partially compensated, i.e. the input in the direction of the mains only notices little of the actual load at the output.

See the extract from patent **RU241833** by Anatol Evich Arkadij Stepanov, where such a "**resonant transformer**" is described.

My own comment on this: "By coupling with an oscillating circuit, such a transformer seems to have a lower feedback effect of the secondary side on the primary side in the case of resonance, which corresponds to a certain decoupling. Insofar as this also corresponds to decoupling in terms of power, this could mean that more power is available at the output than is coupled in at the input. However, since the energy theorem must be valid in any case, the additional power available could only be explained by the fact that, due to resonance tuning, the magnetic domains in the magnetic material couple energy in via spin coupling from the quantum field."

The inventor has applied for a **similar patent** together with others under the name "**Efficient autonomous power supply system**" at **RU2417508**. Here, in addition to the transformer and oscillating circuit components (capacitance), non-linear elements such as thyristors, rectifiers, DC-AC converters are also used. Apparently, the entire control here is done by means of pulsed signals, especially for energy recovery.

In another patent application EP2429071, the inventor describes an **autonomous power supply with an electronic recharging system for charging accumulators**, see under <http://www.google.com/patents/EP2429071A1?cl=en>

Here is the patent **WO2013039415** :

http://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_CH&FT=D&date=20130321&CC=WO&NR=2013039415A1&KC=A1