EXHIBIT 6

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Anatoli Ledenev
and
Robert M. Porter
Junior Party
(Patent 7,843,085),

v.

Meir Adest,
Yoav Galin, Lior Handelsman,
Amir Fishelov,
and
Guy Sella,
Senior Party
(Application 13/308,517)

Patent Interference No. 106,112 (JTM)
(Technology Center 2800)

Before SALLY GARDNER LANE, JAMES T. MOORE, and DEBORAH KATZ, *Administrative Patent Judges*.

MOORE, *Administrative Patent Judge*

DECISION ON MOTIONS
37 C.F.R. § 41.125

I. BACKGROUND

An interference was declared between patent 7,843,085 ("Junior Party" or "Ledenev")[1] and application 13/308,517 ("Senior Party" or "Adest")[2]. Paper 1.

After a conference call, the Board authorized numerous motions to be filed. Paper 17. Not all of the authorized motions were filed. Those that were authorized (and some permissively filed under the rules) include:

Ledenev Motion 2 to de-designate junior party claims. Paper 73 (Corrected).
Ledenev Motion 3 to add a Count. Paper 74 (Corrected).
Ledenev Motion 4 to accord benefit. Paper 75 (Corrected).
Ledenev Responsive Motion 12 to de-designate claims. Paper 81.
Adest Motion 2 for benefit. Paper 77.
Adest Motion 4 to add Ledenev patents. Paper 70. (Corrected).
Adest Miscellaneous Motion 1 to exclude Exhibit 2040. Paper 81.

The times for filing opposition and reply have passed. This interference is ready for decision. Requests for Oral Argument were filed (Papers 124 and 130), but the panel deems oral argument are unneeded in this case, and those requests are denied.

[1] Ledenev identifies its real party in interest as AMPT, LLC. Paper 8.

[2] Adest identifies its real party in interest as Solaredge Technologies, LTD. Paper 10.

II. THE TECHNOLOGY

This interference concerns photovoltaic power systems that are said to be highly efficient. Ex. 2001, Title. There are many variables that affect a photovoltaic system, including non-uniformity of panels, partial shade, dirt or accumulated matter on the panels, damaged panels, and degradation due to age of the panels. *Id.* 2:38-44. There are many ways to interconnect panels, converters, and controllers. *Id.* 2:45-57.

In Ledenev's description of the technical field of the subject matter, it is said that certain aspects of the invention may be responsible for the high efficiency and harvest maximum power from a solar cell, a solar panel, or strings of panels. These aspects include providing electrical power conversion in a multimodal manner, establishing a system that can alternate between differing processes, and differing systems that can achieve efficiencies in conversion that are said to be extraordinarily high compared to traditional systems. Ex. 2001, 1:18-28.

III. The Interference Count

The Count is a "McKelvey" Count, and recites the subject matter of the present interference. More specifically, the Count comprises two alternatives –

> Application 13/308,517, Claim 253. An efficient method of solar energy power harvesting comprising the steps of:
> creating a DC photovoltaic output from a solar panel of a plurality of solar panels;
> connecting said DC photovoltaic output to a DC photovoltaic input of a photovoltaic DC-DC converter; wherein the photovoltaic DC-DC converter includes a buck+boost converter;
> converting said DC photovoltaic input into a converted DC photovoltaic output using at least some times a buck mode of the

photovoltaic DC-DC converter and at least other times a boost mode of said photovoltaic DC-DC converter;

controlling said photovoltaic DC-DC converter in said buck and boost modes while said photovoltaic DC-DC converter converts said DC photovoltaic input into said converted DC photovoltaic output;

controlling transitions of said photovoltaic DC-DC converter between said buck and boost mode conversion by using a maximum power peak tracking control such that substantially all power of said DC photovoltaic input is transferred to said converted DC photovoltaic output;

connecting said converted DC photovoltaic output as part of a converted DC photovoltaic input to a DC-AC inverter; and

inverting said converted DC photovoltaic input into an inverted AC photovoltaic output.

or

Patent 7,843,085 Claim 1. An efficient method of solar energy power creation comprising the steps of:

creating a DC photovoltaic output from at least one solar panel of a plurality of solar panels;

establishing said DC photovoltaic output as at least part of at least one DC photovoltaic input to a photovoltaic DC-DC converter for at least one DC photovoltaic output;

substantially power isomorphically converting said at least one DC photovoltaic input into a converted DC photovoltaic output;

substantially power isomorphically maximum photovoltaic power point multi mode output controlling operation of said photovoltaic DC-DC converter at least some times while said photovoltaic DC-DC converter acts to convert said at least one DC photovoltaic input into said converted DC photovoltaic output;

establishing said converted DC photovoltaic output as at least part of a converted DC photovoltaic input to at least one DC-AC inverter; and

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