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(54) **PRISMATIC SOLAR CONCENTRATOR**

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(71) Applicant: **KENOTOMI LTD**, Kfar Chabad (IL)

(72) Inventors: **Menashe ALTHOUS**, Kfar Chabad (IL); **Joel ERBLICH**, Bnei Brak (IL)

(73) Assignee: **KENOTOMI LTD**, Kfar Chabad (IL)

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(57) **ABSTRACT**

A prismatic solar concentrator is provided that comprises a plurality of prisms made of transparent material, each of the prisms has a front face, and at least three back faces, wherein each of the prisms is attached to the adjacent prisms such that their front faces are aligned, forming a plate-like solar array having a flat front surface and 3-dimensional structured back surface, and a plurality of solar cells producing electrical power in response to light, wherein the plurality of solar cells is attached to some of the back faces of the plurality of prisms.

