

Title (en)

A METHOD AND APPARATUS FOR CONCENTRAING ELECTROMAGNETIC ENERGY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KONZENTRATION ELEKTROMAGNETISCHER ENERGIE

Title (fr)

PROCÉDÉ ET APPAREIL PERMETTANT DE CONCENTRER L'ÉNERGIE ÉLECTROMAGNÉTIQUE

Publication

EP 3128284 A1 20170208 (EN)

Application

EP 15275182 A 20150804

Priority

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Abstract (en)

An electromagnetic energy concentrator apparatus for capturing electromagnetic energy and focussing said energy toward a specified target (202), the apparatus comprising an electromagnetic radiation source (206) and a control system configured to cause electromagnetic radiation from said source to be applied to a selected plurality of three-dimensional portions of an atmospheric volume in a propagation path of said electromagnetic energy so as to heat and/or ionise the air within said portions, wherein said selected portions are spatially located together in a three-dimensional configuration so as to simulate an electromagnetic radiation path modifying element (204) for capturing said electromagnetic energy energy and directing and/or converging said captured energy toward a focal point at or adjacent to said specified target (202). A method of creating an atmospheric electromagnetic radiation path modifying element operative to simulate an electromagnetic energy concentrator is also described.

IPC 8 full level

F41H 13/00 (2006.01)

CPC (source: EP)

F41H 13/0062 (2013.01)

Citation (search report)

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- [A] BRIAN W. NEISWANDER ET AL: "Plasma Lens for Optical Path Difference Control", AIAA JOURNAL, vol. 50, no. 1, 1 January 2012 (2012-01-01), pages 123 - 130, XP055212822, ISSN: 0001-1452, DOI: 10.2514/1.J051175

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