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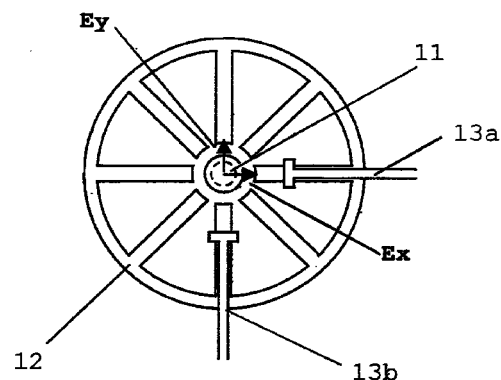
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(54) **A high-frequency energy supply means, and a high-frequency electrodeless discharge lamp device**

(57) A high-frequency energy supply device has a group of side resonators which are electrically connected in a practically annular form, and supply high-frequency energy using resonant high-frequency electromagnetic fields generated in the center portion; and a plurality of high-frequency coupling part for coupling a plurality of high frequency energies propagated from a plurality of high-frequency propagation paths to said group of side resonators; wherein a plurality of high frequencies coupled to said group of side resonators from said plurality of high-frequency coupling means have phases and/or frequencies different from each other.

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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 November 1999	Examiner Albertsson, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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