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- (71) **Applicant:** ISRAEL AEROSPACE INDUSTRIES LTD.
[IL/IL]; Ben-Gurion International Airport, 701000 Lod (IL).
- (72) **Inventors:** AHARONI, Abraham; 24B Hess St., 7634621 Rehovot (IL). LOU ALON, David; 90 Sderot Drom Afrika St., 7841506 Ashkelon (IL). YIFRACH, Aharon; 19 Ay-alon St., 7861619 Ashkelon (IL).
- (74) **Agent:** REINHOLD COHN AND PARTNERS; P.O. Box 13239, 61131 Tel Aviv (IL).

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(54) **Title:** FRIEND OR FOE IDENTIFICATION SYSTEM AND METHOD

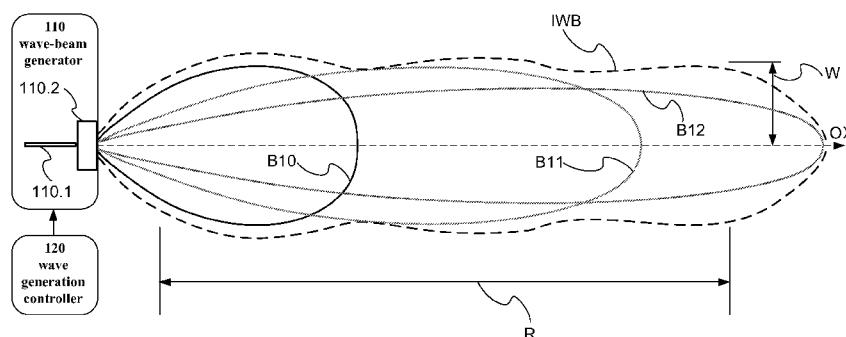


Fig. 1

(57) **Abstract:** There are provided methods and systems for producing a wave-beam having substantially constant lateral extent over a desired range of distances, and interrogation and response system and methods utilizing the same. The method for producing a wave-beam having substantially constant lateral extent includes generating a plurality of at least partially incoherent constituent wave-beams having different divergences and directing the plurality constituent wave-beams to propagate along substantially parallel propagation axes such that the constituent wave-beams at least partially overlap and superpose to form a combined wave-beam. The divergences and intensities of the constituent wave-beams are selected such that the combined wave-beam has a desired substantially constant lateral extent over a desired range of distances along said propagation axes.