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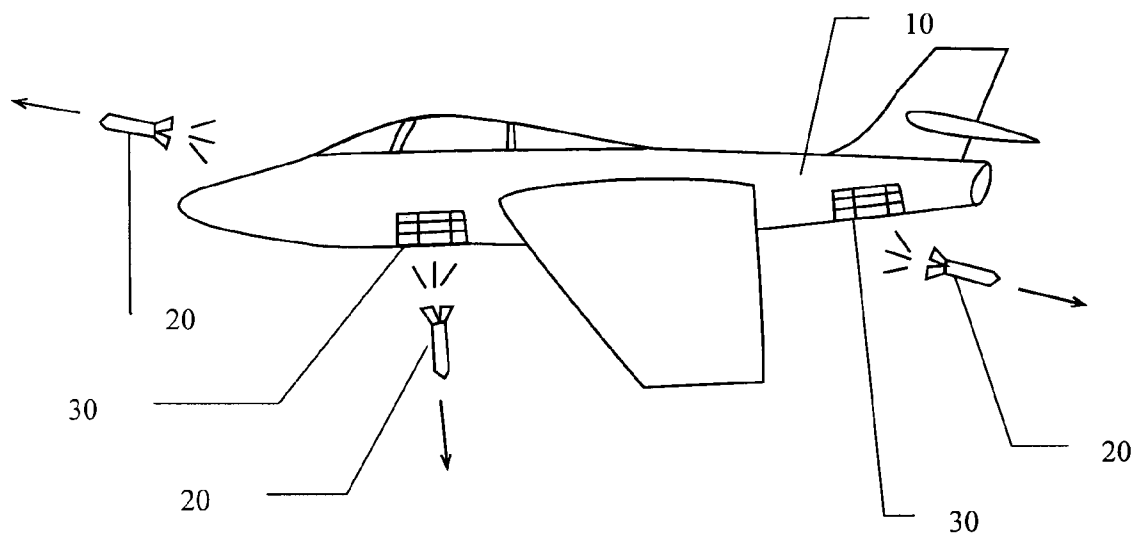
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(54) Title: AN RF DECOY AND METHOD FOR DECEIVING RADAR-BASED MISSILES



(57) Abstract: An expendable, stand-alone, off-board Electronic Counter-Measure system, airborne RF decoy aimed to provide airborne platforms with protection against multiple radar-based threats including Air-to-Air and Surface-to-Air missiles both active and semi-active ones. The airborne RF decoy has the mechanical outline of standard chaff and flare decoys and is safely ejected from any platform by pyrotechnic elements. The airborne RF decoy deceives enemy radar-based threats as follows: immediately after its ejection from the protected airborne platform, the decoy activates an energy source, stabilizes its path, acquires illuminating signals and analyzes threat parameters. Then the decoy alters the received signals generating an authentic false target and transmits a deceiving signal towards the radar threat. The radar threats locks on the decoy and follow its path. Thus the threat course is diverted from the protected airborne platform and a large miss distance of the attacking missile (tens to hundreds of meters) is assured.

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