

FORM 2
THE PATENTS ACT, 1970
(39 of 1970)
& The Patent Rules, 2003
COMPLETE SPECIFICATION

1. TITLE OF THE INVENTION:

ANTI-ROCKET SYSTEM

2. APPLICANT:

Name: ISRAEL AEROSPACE INDUSTRIE LTD.

Nationality: Israel

Address: Ben-Gurion International Airport, 70100 Lod, Israel.

3. PREAMBLE TO THE DESCRIPTION:

The following specification particularly describes the invention and the manner in which it is to be performed:

a sensor array including at least one active sensor and at least two passive sensors, configured to detect and track the flying object location and,

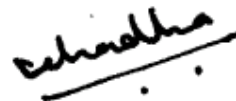
a missile launcher configured to launch a seeker-less interceptor to intercept the flying object,

wherein upon launching of the seeker-less interceptor, the sensor array is configured to track the location of the interceptor and send said object and interceptor locations to a control system;

the control system being configured to provide updated mission data to the interceptor based on said object and interceptor locations for guiding the interceptor toward the flying object and activating a fragmentation warhead on or in the vicinity of said flying object when a lethality criteria is met.

45. The counter-flying system of claim 44, wherein the control system is configured to provide mission data to the interceptor for guiding the interceptor during the whole flight trajectory of the interceptor toward the target.
46. The counter-flying system of any of claims 44-45, wherein the sensor array is further configured to achieve a clock synchronization between each two sensors of said array enabling to achieve a miss distance between the object and the interceptor smaller than the lethality criteria.
47. The counter-flying system of claim 46, wherein the clock synchronization accuracy between each two sensors of the sensor array is of at least 1 nanosecond.

Dated this 07th day of August, 2014.



(CHETAN CHADHA)
PATENT AGENT