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(54) Title: LOW ORBIT MISSILE-SHAPED SATELLITE FOR ELECTRO-OPTICAL EARTH SURVEILLANCE AND OTHER MISSIONS

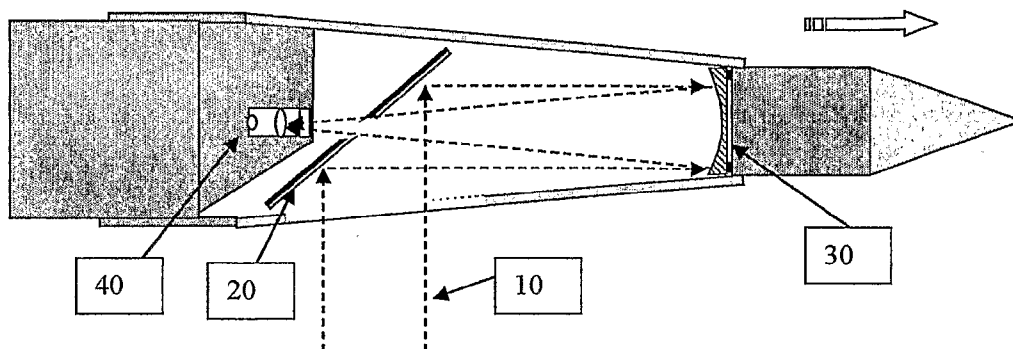


Figure 1: A satellite having the optical axis of the telescope oriented parallel to its direction of propagation and a folding mirror diverting the incoming light from the earth onto the optical axis of the telescope. The telescope is based on reflective mirror.

(57) Abstract: A low orbit optical imaging satellite has a long thin satellite body housing an optical telescope arrangement. A major part of the telescope arrangement has its optical axis roughly parallel to the direction of elongation and includes a mirror arrangement deployed to direct a line of sight of the optical telescope out sideways from the direction of elongation. The transverse dimensions of the satellite body are preferably minimized to be close to the optical aperture dimension of the optical telescope, thereby providing a high ballistic coefficient and high orbit lifetime for orbits in the low thermosphere.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL07/00584

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **B64G 1/24** (2006.01)

USPC: 701/4,13;244/164,171,158.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 701/4,13;244/164,171,158.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6066850 A (Hersom et al) 23 May 2000 (23.05.2000) whole document	1-16



Further documents are listed in the continuation of Box C.



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