United States Patent [19]

Task

[11] **Patent Number: 4,580,196**

[45] **Date of Patent: Apr. 1, 1986**

[54] **NIGHT VISION COMPATIBLE ILLUMINATION FOR VEHICLE CREWMEMBER WORKSPACE**

[75] Inventor: **Harry L. Task**, Dayton, Ohio

[73] Assignee: **The United States of America as represented by the Secretary of the Air Force**, Washington, D.C.

[21] Appl. No.: **688,944**

[22] Filed: **Jan. 4, 1985**

[51] **Int. Cl.**[4] **B64D 47/02**

[52] **U.S. Cl.** **362/62**; 362/800; 362/226

[58] **Field of Search** 362/62, 63, 800, 803, 362/226, 254; 244/118.5

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,152,618	5/1979	Abe et al.	362/800
4,211,955	7/1980	Ray	315/53
4,217,625	8/1980	Klein	362/800
4,277,819	7/1981	Sobota et al.	362/800
4,298,869	11/1981	Okuno	340/782
4,329,625	5/1982	Nishizawa et al.	315/158
4,329,737	5/1982	Triller et al.	362/800
4,521,835	6/1985	Meggs et al.	362/62

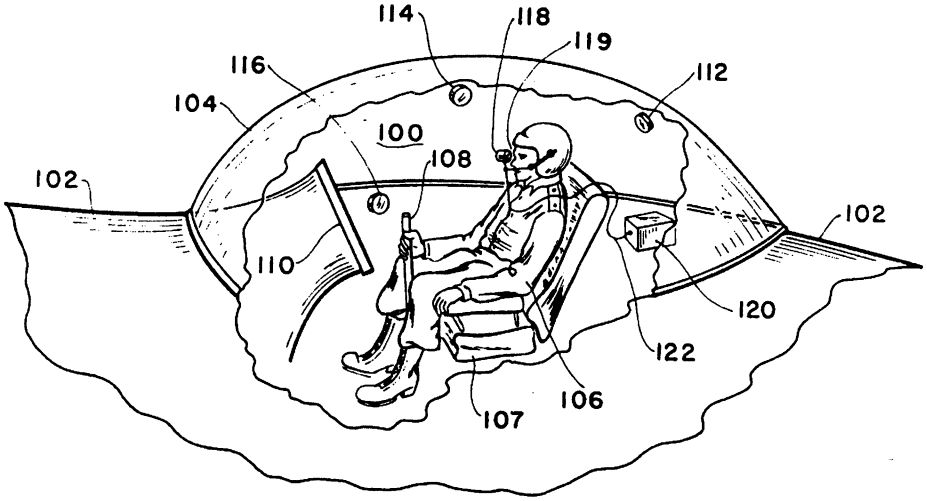
FOREIGN PATENT DOCUMENTS

47418	3/1982	European Pat. Off. .	
2922952	12/1980	Fed. Rep. of Germany	362/800
1443468	7/1976	United Kingdom	362/800
2098714	11/1982	United Kingdom	362/800

Primary Examiner—Ira S. Lazarus

Attorney, Agent, or Firm—Donald J. Singer; Gerald B. Hollins

[57] **ABSTRACT**

An arrangement for conveniently changing the illumination in an aircraft cockpit or other enclosure to a spectrum compatible with night vision infrared equipment including provision for easy return to the original illumination source. Selected LED elements are employed in multiple element arrays using a tether connected package that can be excited directly from existing wiring in fixtures.

17 Claims, 3 Drawing Figures