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(54) **Title:** A SYSTEM FOR DETECTING THE DEPLOYMENT OF A LANDING GEAR OF AN AIRCRAFT AND A METHOD THEREOF

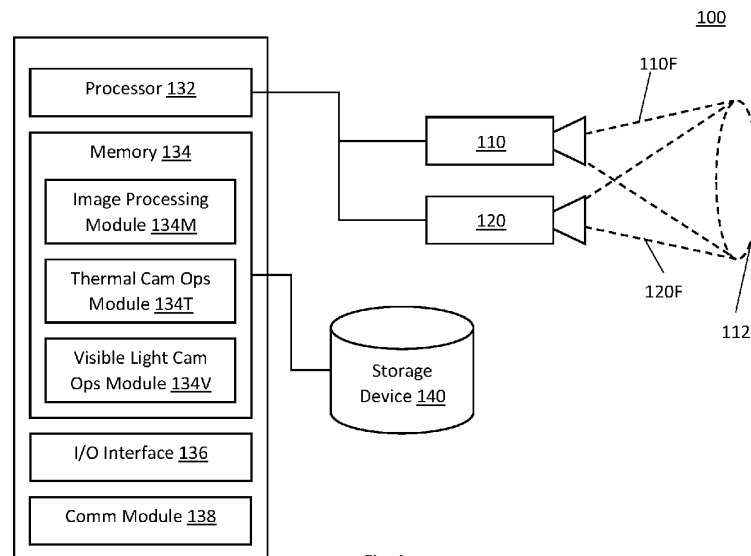


Fig. 1

(57) **Abstract:** A system for detecting the deployment of a landing gear of an aircraft during landing is provided. The system includes a thermal camera comprising a first field of view and adapted to monitor an area of interest along a flight path of the aircraft and capture a thermal image of the area of interest, a visible light camera comprising a second field of view and adapted to monitor the area of interest and capture a visible light image of the area of interest. The system further includes a processor in communication with the thermal camera and the visible light camera, a memory in communication with the processor for storing instructions executable by the processor, such that the processor may be configured to monitor the area of interest along the flight path of the aircraft, detect the aircraft when it enters the area of interest, identify a section of the aircraft where the landing gear deploys, capture at least one of a visible light image and a thermal image of the section, and detect the deployment of the landing gear in at least one of the visible light image and the thermal image. A method of the system is also provided.

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