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(54) Title: ADVANCED AIRCRAFT VISION SYSTEM UTILIZING MULTI-SENSOR GAIN SCHEDULING

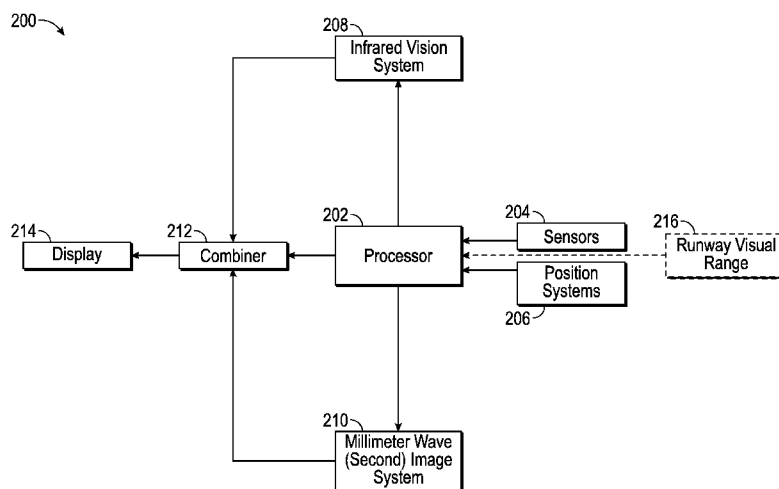


FIG. 2

(57) Abstract: An enhanced vision system is provided for an aircraft performing a landing maneuver. Accordingly to non-limiting embodiments, a processor onboard the aircraft receives data from sensors or systems onboard the aircraft and determines a position of the aircraft relative to a runway using the data. Responsive to this determination, the processor adjusts the gain of a first vision system and a second vision system. Images from the first vision system and the second vision system are merged and displayed to the pilot until the completion of the landing maneuver.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 15/30117

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G05D 1/00 (2015.01)

CPC - B60T 8/172

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)
IPC(8): G05D 1/00 (2015.01); CPC: B60T 8/172Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 701/1, 701/3
IPC(8): G05D 1/00 (2015.01); CPC: B60T 8/172, G07C 5/008, B60R 16/0231, B60G 17/0195, B60R 16/0315Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, ProQuest Dialog, Google Web, Google Patents (Search terms: gain, infrared, IR, millimeter wave, MMW, mmWave, heads-up display, HUD, vision, imaging, aircraft, airplane, plane, helicopter, adjust, control, overlay, merge image, combine, landing maneuver, night vision, etc.)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,850,185 B1 (Woodell) 01 February 2005 (01.02.2005), col. 3, ln. 6-22 and 59-63, and col. 4, ln. 63 to col. 5, ln. 8, and Figs. 1-3.	1-20
Y	US 2011/0089325 A1 (Ottney) 21 April 2011 (21.04.2011), para. [0053]-[0054], [0063], [0094], and [0101].	1-20
Y	US 2010/0036548 A1 (Nichols et al.) 11 February 2010 (11.02.2010), para. [0022], [0025], [0027], and [0036], and Figs. 1-2.	2-3, 6-7, 9-10, 13-14, 16-17, 20
A	US 2003/0007689 A1 (Huniu) 09 January 2003 (09.01.2003) (entire document).	1-20

☐ Further documents are listed in the continuation of Box C.

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