



(51) International Patent Classification:
G08B 21/00 (2006.01)

(21) International Application Number:
PCT/US2018/028571

(22) International Filing Date:
20 April 2018 (20.04.2018)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/489,223 24 April 2017 (24.04.2017) US

(71) Applicant: **THEIA GROUP, INCORPORATED**
[US/US]; 1600 Market Street Suite 1320, Philadelphia,
Pennsylvania 19103 (US).

(72) Inventor: **OLSON, Erlend**; OLSON, Erlend, P.O. Box
10939, Newport Beach, California 92658 (US).

(74) Agent: **BONINI, Frank J., Jr.** et al.; P.O. Box 750, Valley
Forge, Pennsylvania 19482 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(54) Title: SYSTEM FOR RECORDING AND REAL-TIME TRANSMISSION OF IN-FLIGHT OF AIRCRAFT COCKPIT TO
GROUND SERVICES

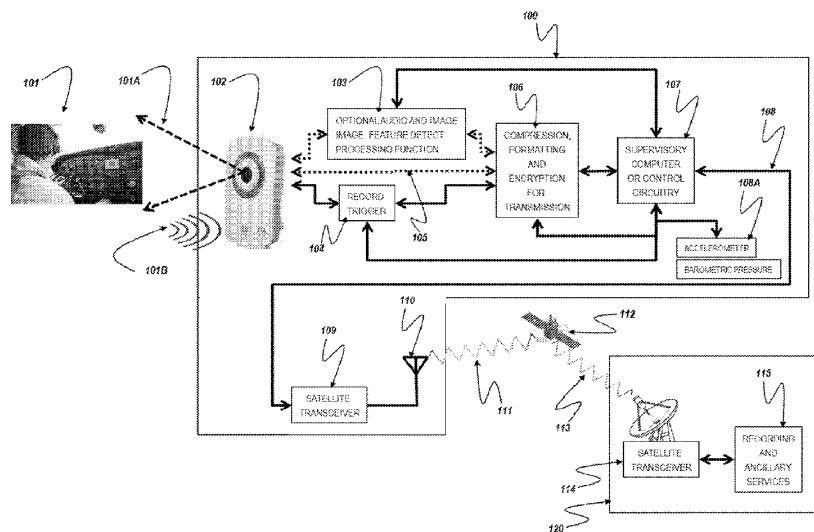


Figure 1

(57) Abstract: A system, method and device for monitoring an aircraft, including activity taking place within an aircraft and conditions of the aircraft, where one or more a perceiving component such as a camera, microphone, or other sensor, is situated at a location within the aircraft from which information may be ascertained. Preferably the component is disguised within the surfaces or instrumentation of the aircraft. The perceiving component is connected with a communication mechanism to transmit communications from the system resident within the aircraft to a grounds portion of the system through a communication link, such as a satellite communication link. The system may process the information corresponding with the aircraft condition or activity and generate alerts when a trigger is met or exceeded. The system components on the aircraft may monitor conditions and activity without using or interfering with the aircraft instrumentation, the system using only the aircraft power.

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))