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(71) Applicant (for all designated States except US):
AEROVIRONMENT, INC. [US/US]; 181 W. Hunting-
ton Drive, Suite 202, Monrovia, CA 91016 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SECHRIST,**
William, Stuart [US/US]; 3564 Lathrop, Simi Valley,
CA 93063 (US).

(74) Agent: **LEDUC, Timothy, J.**; Brinks Hofer Gilson & Li-
one, P.O. Box 10087, Chicago, IL 60610 (US).

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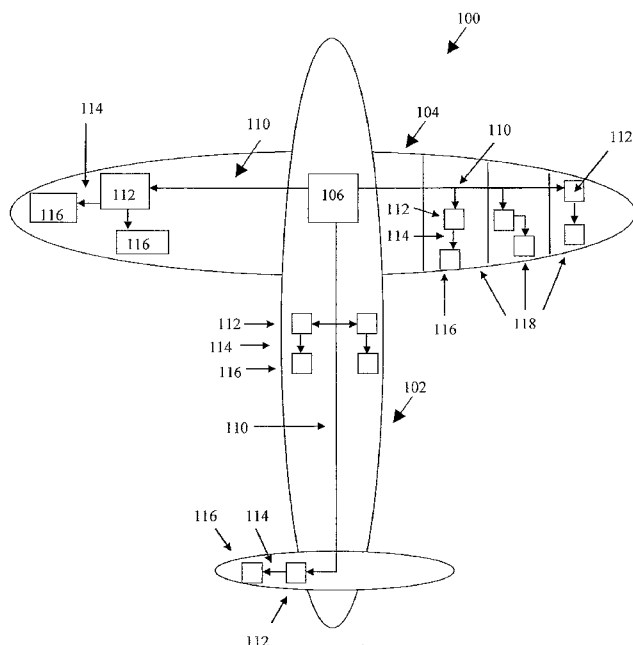


FIG. 1

(57) Abstract: An actuator controller with a power supply that steps down a high voltage for use by remote auxiliary loads in an aircraft is provided. A high voltage power bus running through the aircraft may use high gage or smaller diameter wiring, resulting in weight savings in the power bus. A control network running through the aircraft may use fiber optic cabling, providing further weight reductions. An actuator controller may receive the high voltage from the power bus and provide a lower voltage to a remote device. The actuator controller may facilitate communication between the control network and the remote device. The integration of control and power supply may enhance endurance, reliability, and enable localized calibration of the remote device. Modular wing components may include interface controllers, high and low power busswork, and remote devices. The modular wing components may include power and control interconnections.