

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082672 A3

(51) International Patent Classification⁷: **G05B 19/42**,
G06F 19/00, 11/30

15110 Marquette Street, Suite D, Moorpark, CA 93021
(US).

(21) International Application Number: PCT/US03/08815

(74) Agent: **IKEHARA, Patrick, Y.**; Christie, Parker &
Hale, LLP, 350 West Colorado Boulevard, P.O. Box 7068,
Pasadena, CA 91109-7068 (US).

(22) International Filing Date: 21 March 2003 (21.03.2003)

(25) Filing Language:

English

(81) Designated States (*national*): AU, CA, JP, US.

(26) Publication Language:

English

(84) Designated States (*regional*): European patent (AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(30) Priority Data:

10/104,696

22 March 2002 (22.03.2002) US

Published:

— with international search report

(71) Applicant (*for all designated States except US*): **P.L.
PORTER CO.** [US/US]; 6355 DeSoto Avenue, Woodland
Hills, CA 91367-2687 (US).

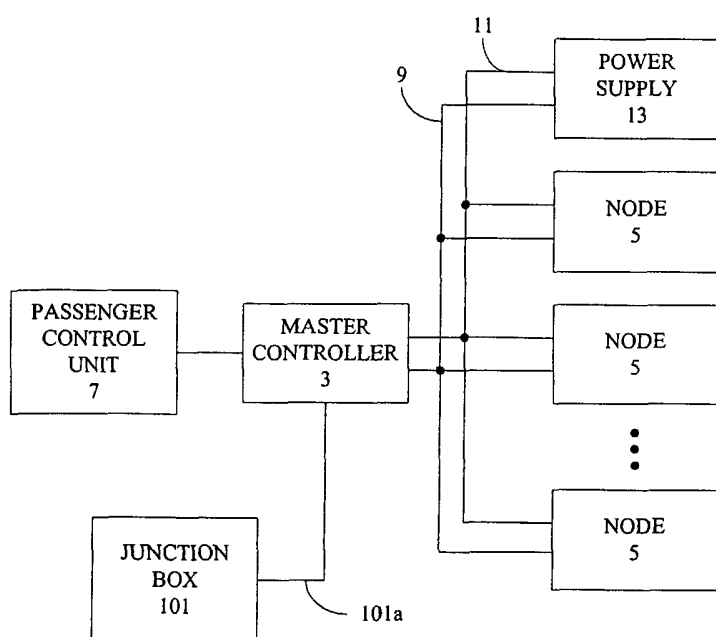
(88) Date of publication of the international search report:
18 December 2003

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CHRISTIANSEN,
Mark, David** [US/US]; 39479 Calle El Parado, Green Val-
ley, CA 91390 (US). **BRACY, Gregory, Duff** [US/US];

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: SMART SYSTEM SEAT CONTROLLER



(57) Abstract: A Master controller (3) and various nodes (5) capable of performing disparate functions are configured to cause devices to manipulate an aircraft seat. The nodes (5) operate independently and without interference of the master controller. The master controller (3) provides programs to the nodes. A node initiates a program when commanded to do so by the master controller resulting in a device manipulating an aircraft seat or otherwise operating in conjunction with the aircraft seat. The node also monitors and provides various real time information and performs calibration, power management, diagnostic and other similar types of operations.

WO 03/082672 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08815

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G05B 19/42; G06F 19/00, 11/30
US CL : 701/29, 35; 700/2, 4, 20, 24; 244/122R, 122AH

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)
U.S. : 701/29, 35; 700/2, 4, 20, 24; 244/122R, 122AH

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X,P | US 6,532,406 B1 (SCHMEDDING et al) 11 March 2003 (11.03.2003), column 3, lines 18-27 | 1-61 |
| Y | US 4,944,554 A (GROSS et al) 31 July 1990 (31.07.1990), column 6, lines 64-68; column 7, lines 1-7, lines 38-53 | 1-61 |
| A | US 4,659,145 A (OBERSTEINER) 21 April 1987 (21.04.1987), Abstract | 1-61 |

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

☐ See patent family annex.

* Special categories of cited documents:

| | | | |
|-----|---|-----|--|
| "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "E" | earlier application or patent published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" | document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family |
| "P" | document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search

05 May 2003 (05.05.2003)

Date of mailing of the international search report

23 SEP 2003

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Thu Nguyen

Telephone No. (703)308-1113