WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

G06F 19/00

A3

(11) International Publication Number:

WO 95/23378

(43) International Publication Date:

31 August 1995 (31.08.95)

(21) International Application Number:

PCT/US95/02440

(22) International Filing Date:

27 February 1995 (27.02.95)

(30) Priority Data:

08/203,909

28 February 1994 (28.02.94) US

(71) Applicant: EXECUTONE INFORMATION SYSTEMS, INC. [US/US]; 478 Wheelers Farms Road, Milford, CT 06460 (US).

- (72) Inventors: CHACO, John; 1 Great Meadow Road, Seymour, CT 06483 (US). HERSH, Israel; 175 Fairmont Terrace, Fairfield, CT 06432 (US). ORLOVSKI, Dmitry; 26 Tamanny Trail, Danburry, CT 06811 (US). VINCENS, Joe; 15 Roy Mountain Road, Prospect, CT 06712 (US). RAM, Yaron; Apartment 18, 24 Radio Place, Stamford, CT 06906 (US).
- (74) Agents: BARRESE, Rocco, S. et al.; Dilworth & Barrese, 333 Earle Ovington Boulevard, Uniondale, NY 11553 (US).

(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

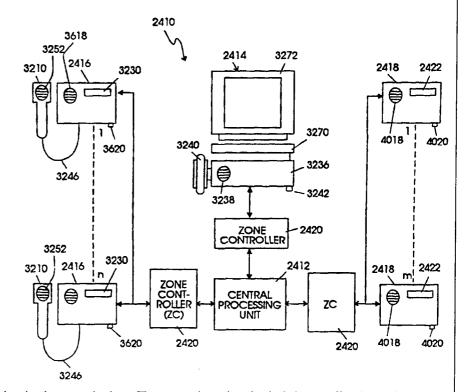
(88) Date of publication of the international search report:

2 November 1995 (02.11.95)

(54) Title: PATIENT CARE AND COMMUNICATION SYSTEM

(57) Abstract

The present invention relates to a patient care and communication system which utilizes a central processing system and a plurality of remote stations electrically connected to the central processing system to facilitate visual and data communications. Each remote station includes telephone circuitry which is connected to a private branch exchange for telephones communications between stations. In addition, the private branch exchange is connected to a telephone exchange and a plurality of telephones for facilitating telephone communication therebetween. The central processing system facilitates the visual and data communications between the plurality of remote stations, and includes a system for determining which of the plurality of remote stations are transmitting the visual and data communications and which of the plurality of remote stations are to receive the visual and data communications. The central processing system also includes a system which establishes a communication link between the transmitting stations and the receiving stations. The remote stations include a processing system which also facilitates the visual, data and telephone



communications and a display for displaying the visual communications. The present invention also includes a staff and/or patient locator system, in which each remote station includes an infrared receiver that receives infrared transmissions from a portable transmitter worn by a staff member or patient. The infrared transmissions include identity information associated with the person wearing the transmitter. The identity information is then transferred to the central processing system which determines the identity and location of each person wearing a portable transmitter.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
ΑU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
·BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	· NZ	New Zealand
ВJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JР	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgystan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic	SD	Sudan
CG	Congo		of Korea	SE	Sweden
CH	Switzerland	KR	Republic of Korea	SI	Slovenia
CI	Côte d'Ivoire	KZ	Kazakhstan	SK	Slovakia
CM	Cameroon	Li	Liechtenstein	SN	Senegal
CN	China	LK	Sri Lanka	TD	Chad
CS	Czechoslovakia	LU	Luxembourg	TG	Togo
CZ	Czech Republic	LV	Latvia	TJ	Tajikistan
DE	Germany	MC	Monaco	TT	Trinidad and Tobago
DK	Denmark	MD	Republic of Moldova	UA	Ukraine
ES	Spain	MG	Madagascar	US	United States of America
FI	Finland	ML	Mali	UZ	Uzbekistan
FR	France	MN	Mongolia	VN	Viet Nam
GA	Gabon				

INTERNATIONAL SEARCH REPORT

.ational Application No

PCT/US 95/02440 A. CLASSIFICATION OF SUBJECT MATTER IPC 6 G06F19/00 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 6 G06F 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 practical, 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. P,X WO, A, 94 22098 (EXECUTONE INFORMATION 1-24 SYSTEMS) 29 September 1994 see page 5, line 19 - page 7, line 35 see page 12, line 9 - page 13, line 31 see page 15, line 2 - line 10 see page 17, line 1 - line 10 see page 20, line 15 - line 25 see page 22, line 4 - page 23, line 8 see page 26, line 1 - page 28, line 30 see page 46, line 10 - line 20 see page 49, line 15 - page 50, line 9 see page 75, line 5 - line 15 see page 78, line 1 - page 86, line 25 see page 98, line 24 - page 105, line 7 see page 112, line 30 - page 114, line 29 see page 119, line 5 - page 123, line 5 X Further documents are listed in the continuation of box C. Х Patent family members are listed in annex. Special categories of cited documents: "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 "A" document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "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 docucitation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 0 3, 10, 95 21 June 1995 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NI. - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,

Form PCT/ISA/218 (second sheet) (July 1992)

Fax: (+31-70) 340-3016

3

BARBA, M

INTERNATIONAL SEARCH REPORT

In. Ational Application No
PCT/US 95/02440

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	To t
-~ ₅ 01 y	or document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US,A,5 291 399 (CHACO JOHN) 1 March 1994 see column 5, line 3 - line 55 see column 7, line 17 - column 8, line 8 see column 9, line 15 - column 11, line 18	1-24
A	EP,A,O 505 627 (ANALOGIC CORP) 30 September 1992 see column 1, line 50 - column 4, line 57	1-24
	·	

International application No.

INTERNATIONAL SEARCH REPORT	PCT/US 95/02440
Box I Observations where certain claims were found unsearchable (Continuation	of item 1 of first sheet)
This international search report has not been established in respect of certain claims under A 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority,	
Claims Nos.: because they relate to parts of the international application that do not comply with an extent that no meaningful international search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the secon	d and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of	first sheet)
This International Searching Authority found multiple inventions in this international applica	ation, as follows:
See annexed sheet	
As all required additional search fees were timely paid by the applicant, this internal searchable claims.	tional search report covers all
2. As all searchable claims could be searches without effort justifying an additional fee of any additional fee.	, this Authority did not invite payment
As only some of the required additional search fees were timely paid by the applica covers only those claims for which fees were paid, specifically claims Nos.:	nt, this international search report
4. X No required additional search fees were timely paid by the applicant. Consequently restricted to the invention first mentioned in the claims; it is covered by claims Nos 1-24	this international search report is .:
	accompanied by the applicant's protest. yment of additional search fees.

In the present application, SAE 105776 (PCT/US95/02440), two sets of claims relating to two different technical features are disclosed:

- 1. Independent claim 1 and dependent claims 2-19, independent claim 20 and dependent claim 21, independent claim 22 and dependendent claim 23 and independent claim 24 describe a patient care and communication system which comprise a central station, a plurality of remote stations and a private branch exchange.
- 2. Independent claim 25 and dependent claims 26-29 and independent claim 30 describe an apparatus for remotely controlling environmental facilities within a room of a health care facility.

There is no common special technical feature linking independent claim 1 and its independent claims 2-19, independent claim 20 and dependent claim 21, independent claim 22 and dependent claim 23, independent claim 24 and independent claim 25 and its dependent claims 26-29, and idependent claim 30. Consequently the application doesn't comply the requirements of unity of invention (see rule 13 PCT).

The search has been performed, according to Art. 17,3 PCT, on those part of the international application which relate to the invention first mentioned in the claims. (claims 1-24)

INTERNATIONAL SEARCH REPORT

Information on patent family members

In. ational Application No
PCT/US 95/02440

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO-A-9422098	29-09-94	AU-B-	6394494	11-10-94
US-A-5291399	01-03-94	NONE		
EP-A-0505627	30-09-92	JP-A-	4327832	17-11-92

Form PCT/ISA/210 (patent family annex) (July 1992)