

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 March 2003 (20.03.2003)

PCT

(10) International Publication Number  
**WO 2003/023551 A3**

- (51) International Patent Classification<sup>7</sup>: **G06F 17/60** (74) Agents: BURKE, Alexander, J. et al.; Siemens Corporation - Intellectual Property Dept., 186 Wood Ave. South, Iselin, NJ 08830 (US).
- (21) International Application Number:  
PCT/US2002/023496
- (22) International Filing Date: 24 July 2002 (24.07.2002) (81) Designated States (*national*): CA, JP.
- (25) Filing Language: English (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).
- (26) Publication Language: English
- (30) Priority Data:  
60/318,664 12 September 2001 (12.09.2001) US  
10/051,664 17 January 2002 (17.01.2002) US  
Published:  
— with international search report
- (71) Applicant: SIEMENS MEDICAL SOLUTIONS HEALTH SERVICES CORPORATION [US/US]; 51 Valley Stream Parkway, Malvern, PA 19355 (US). (88) Date of publication of the international search report:  
16 December 2004
- (72) Inventors: BRANDT, Samuel I.; 7 Craig Lane, Malvern, PA 19355 (US). DEHAAN, Jan; 818 Tremont Drive, Downingtown, PA 19335 (US).  
*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 2003/023551 A3

(54) Title: A SYSTEM FOR PROCESSING HEALTHCARE RELATED EVENT INFORMATION FOR USE IN SCHEDULING PERFORMANCE OF TASKS

(57) Abstract: A system and user interface integrates and processes event associated messages affecting healthcare delivered to a patient and supports creation, initiation and modification of currently operating workflow processes involving processing of event messages. A method for processing an event representing a change in circumstances potentially affecting healthcare delivered to a patient involves receiving a message identifying an event (303) potentially affecting healthcare delivered to a patient. Predetermined rules are applied to interpret the identified event to determine particular tasks to be performed in response to occurrence of the identified event (308). The particular tasks are scheduled to be performed by at least one individual in response to the occurrence of the identified event. In addition a database containing records indicating active process instances is searched to identify active process instances of a target process to be replaced by a process comprising the particular tasks. Also a parameter associated with an event is stored at a location available for access by multiple different process task sequences

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/23496

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/60

US CL : 705/7;1

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. : 705/7;1

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)  
WEST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P --- Y,P	US 5,692,125 A (SCHLOSS et al) 25 November 1997 (25.11.1997), col. 3, lines 40-65, col. 4, lines 43-48, col. 5, lines 30-33, col. 7, lines 55-59, col. 8, lines 21-37, col. 12, lines 14-35, col. 14, lines 51-67, col. 15, lines 46-60, col. 20, lines 21-22, Fig. 2.	1, 2, 9, 10, 11, 12, 13, 14 ----- 3, 4, 5, 6, 7, 8, 15-18
--- Y	US 6,401,138 A (JUDGE et al) 04 June 2002 (04.06.2002), col. 2, lines 54-56, col. 5, lines 29-30, col. 8, lines 21-45, col. 9, line 13, col. 21, lines 36-45.	----- 3,4,7,8,15-18
--- Y	US 6,004,276 A (WRIGHT et al) 21 December 1999 (21.12.1999), col. 42, lines 37-41	----- 5,6,14

☐ 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

"E" earlier application or patent published on or after the international filing date

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"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

"&"

document member of the same patent family

Date of the actual completion of the international search

25 June 2004 (25.06.2004)

Date of mailing of the international search report

17 SEP 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Tariq Hafiz

Telephone No. 703-305-3900