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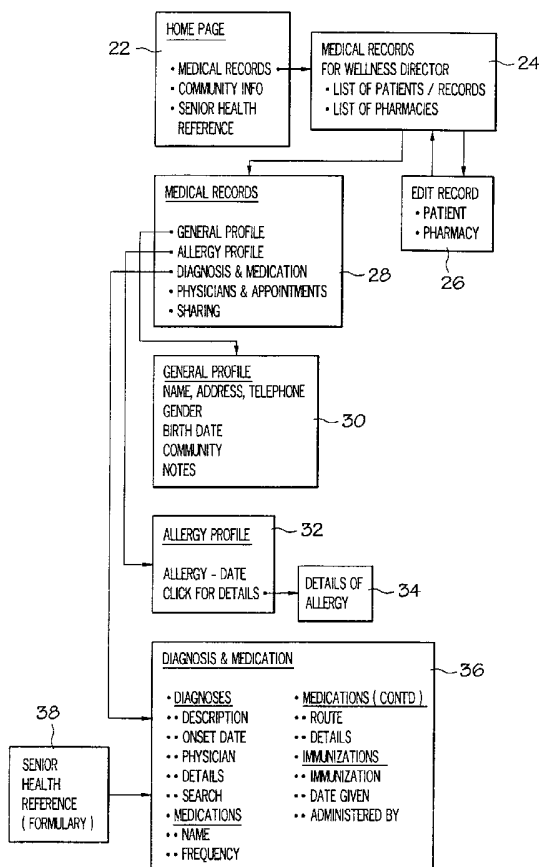
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(54) Title: PATIENT MEDICATION ASSESSMENT AND MANAGEMENT SYSTEM



(57) Abstract: A patient medication assessment and management system provides a variety of case management tools for a professional health care provider which are accessible over a network, preferably a secure extranet. The tools include an electronically-submitted and maintained health and wellness record for each patient, professional consulting pharmacist services, such as a drug regimen review and medication management consulting services, and a risk assessment tool for determining a frequency of medication regimen review. In a preferred embodiment, the system will also provide information services on such subjects as drugs and diseases, as well as community information pertaining to the locale of a particular patient. The health and wellness record is available over the network to wellness coordinators of managed care facilities, as well as the patients themselves and non-professional care providers, such as family members, by permission of the resident. The system also provides a scheduling function in which a patient or care provider is provided a schedule of physician appointments for a patient, and further, the health and wellness record is transmitted automatically to a physician to a consultation, and it is subsequently updated to reflect that consultation. Most importantly, the system provides for periodic review of the health and wellness record by a pharmacist to detect any potential drug related problems and to recommend an appropriate drug regimen for the patient. Such recommendations are communicated to the wellness coordinator, patient, and/or family member.



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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 758 095 A (ALBAUM ET AL) 26 May 1998 (1998-05-26)	1,2,5-7, 9,10,19, 20
Y	column 1, line 5 -column 20, line 34; figures 1-49	3,4,8, 11,18, 23,24
Y	US 5 390 238 A (KIRK DAN M ET AL) 14 February 1995 (1995-02-14) column 1, line 50 -column 2, line 30 column 2, line 57 -column 6, line 16	3,4,23, 24
Y	US 6 024 699 A (SURWI ET AL) 15 February 2000 (2000-02-15)	8,11,18
A	column 2, line 25 -column 4, line 38 -/--	19

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 45490 A (GOETECH LLC ;GOETZ GERALD (US); HEPP BRIAN (US)) 10 September 1999 (1999-09-10) abstract page 1, line 18 -page 5, line 2 ---	1-24
A	WO 99 10829 A (LARKINS WILLIAM T ;KAMEN DEAN L (US); MANNING ROBERT (US); NISBET) 4 March 1999 (1999-03-04) page 11, line 5 -page 15, line 21 -----	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

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national Application No
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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5758095	A	26-05-1998	NONE		
US 5390238	A	14-02-1995	NONE		
US 6024699	A	15-02-2000	AU	2092699 A	27-09-1999
			CA	2322563 A1	16-09-1999
			EP	1197907 A2	17-04-2002
			EP	1062615 A1	27-12-2000
			WO	9946718 A1	16-09-1999
WO 9945490	A	10-09-1999	US	6314384 B1	06-11-2001
			US	6421650 B1	16-07-2002
			AU	2896799 A	20-09-1999
			CA	2322481 A1	10-09-1999
			EP	1058900 A2	13-12-2000
			WO	9945490 A2	10-09-1999
			US	6397190 B1	28-05-2002
			AU	3389600 A	21-09-2000
			WO	0051519 A2	08-09-2000
WO 9910829	A	04-03-1999	AU	8909898 A	16-03-1999
			WO	9910829 A1	04-03-1999