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[54] **MEDICAL NETWORK MANAGEMENT ARTICLE OF MANUFACTURE**

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[51] **Int. Cl.**[6] **A61B 5/00**

[52] **U.S. Cl.** **600/300**; 705/2

[58] **Field of Search** 364/400; 395/924; 600/300, 920, 923; 705/2, 3

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,130,881	12/1978	Haessler et al. .	
4,290,114	9/1981	Sinay	364/900
4,489,387	12/1984	Lamb et al. .	
4,838,275	6/1989	Lee	128/670
4,839,822	6/1989	Dormond et al. .	
4,852,173	7/1989	Bahl et al.	381/43
4,858,121	8/1989	Barber et al.	364/406
4,872,122	10/1989	Altschuler et al.	364/554
4,895,518	1/1990	Arnold et al.	434/118
4,945,476	7/1990	Bodick et al.	364/413.02
5,018,067	5/1991	Mohlenbrock et al.	364/413.02
5,025,374	6/1991	Roizen et al.	364/413.02
5,065,315	11/1991	Garcia .	
5,072,383	12/1991	Brimm et al.	364/413.02
5,241,621	8/1993	Smart	395/51
5,253,164	10/1993	Holloway et al.	364/406
5,255,187	10/1993	Sorensen	364/413.02
5,263,123	11/1993	Hayashi	395/51
5,301,105	4/1994	Cummings	364/401
5,307,262	4/1994	Ertel	364/413.01
5,341,291	8/1994	Roizen et al.	600/300
5,471,382	11/1995	Tallman et al.	364/406
5,508,912	4/1996	Schneiderman	364/401 R

FOREIGN PATENT DOCUMENTS

WO A 94/07210	9/1992	WIPO .
WO A 94/00817	6/1993	WIPO .

OTHER PUBLICATIONS

Chong–Yen Lee and Martha Evens, "Recommending Tests In A Multimembership Bayesian Diagnostic Expert System", May 12, 1991.

Broome, M.E., "Telephone Protocols for Pediatric Assessment and Advice", *Journal of Emergency Nursing,* vol. 12, No. 13, May/Jun. 1986, pp. 142–146.

(List continued on next page.)

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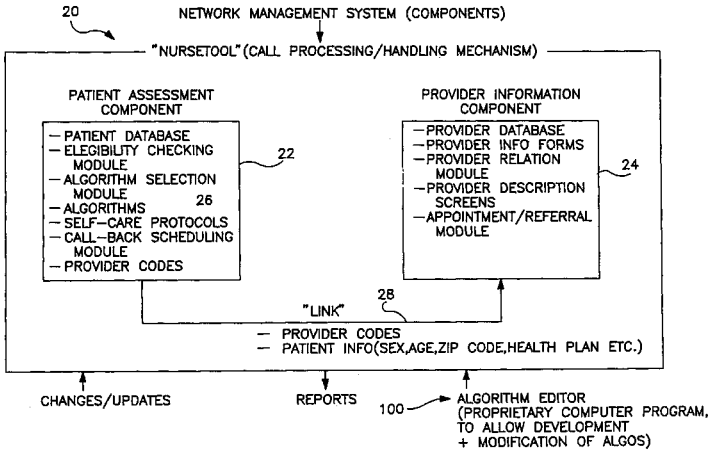
[57] **ABSTRACT**

In a medical network management system (NMS) **(20)**, health plan beneficiaries access a team of health care professionals over the telephone to help them assess their health needs and select appropriate care. The NMS **(20)** is implemented with an article of manufacture for use with a data processing system **(13)**. A storage medium **(15)** has stored therein a medical provider information stored program **(22)** and a medical provider database **(24)**. The medical provider database describes clinical services or procedures available from each provider by clinical codes or procedure codes. The data processing system **(13)** is configured by the medical provider information stored program **(22)** when executed by the data processing system **(13)** to use the clinical codes or procedure codes to identify a medical provider from the medical provider database for providing a specific medical service to a patient.

7 Claims, 60 Drawing Sheets