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**Mitchell et al.**

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(54) **METHOD FOR PRODUCTION OF MEDICAL RECORDS AND OTHER TECHNICAL DOCUMENTS**

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(57) **ABSTRACT**

A computer implemented system for the production of medical records, legal documents and other frequently produced semi-technical documents. This is accomplished by generating an intelligent computer-guided interview and the use of serialized scriptable objects. Major program elements include a knowledge base text file, a parse engine, and an execution module. The knowledge base uses a unique rule syntax. The parse engine converts the textual knowledge base file to a compiled binary representation which can then be interpreted by the execution module. The execution module leads the user through the interview by generating a series of questions and presents possible answers in the form of pick lists. The data is recorded with a computer pen and collated into a document file. This file is coded in binary format and can be written to and recalled from disk. If the file is recalled from disk the user can continue to answer questions or change answers previously given. The result is a mobile computing system whereby data is input in a structured format. When the program is executed the user is prompted for answers to questions and, based upon the user's response, the final document can change considerably. Depending upon each answer, the program may change the subsequent questions being asked, change the list associated with a question, change the text being generated, or change the entire structure of the document. The data collected may be also be stored in a database for analysis at a later date. Finally, the data collected is output in a narrative text format which can be tailored according to the traditions and expectations of the user's profession. The program will output the text via a printer or it can be transmitted via electronic means.

**3 Claims, 41 Drawing Sheets**

