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Pazandak et al.

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(54) **GUIDED NATURAL LANGUAGE
INTERFACE SYSTEM AND METHOD**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 857 days.

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(51) **Int. Cl.**
G10F 17/27 (2006.01)

(52) **U.S. Cl.** **704/9**

(58) **Field of Classification Search** 704/9,
704/257, 270.1; 707/3

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,688,195 A *	8/1987	Thompson et al.	706/11
4,829,423 A	5/1989	Tennant et al.	364/200
5,083,268 A	1/1992	Hemphill et al.	395/12
5,745,550 A *	4/1998	Eisdorfer et al.	379/52
6,012,067 A	1/2000	Sarkar	
6,021,418 A	2/2000	Brandt et al.	
6,055,538 A	4/2000	Kessenich et al.	

6,064,951 A	5/2000	Park et al.	
6,085,198 A	7/2000	Skinner et al.	
6,321,235 B1 *	11/2001	Bird	707/203
6,615,172 B1 *	9/2003	Bennett et al.	704/257

FOREIGN PATENT DOCUMENTS

EP 0924628 A2 * 6/1999 707/101

* cited by examiner

Primary Examiner—Richemond Dorvil

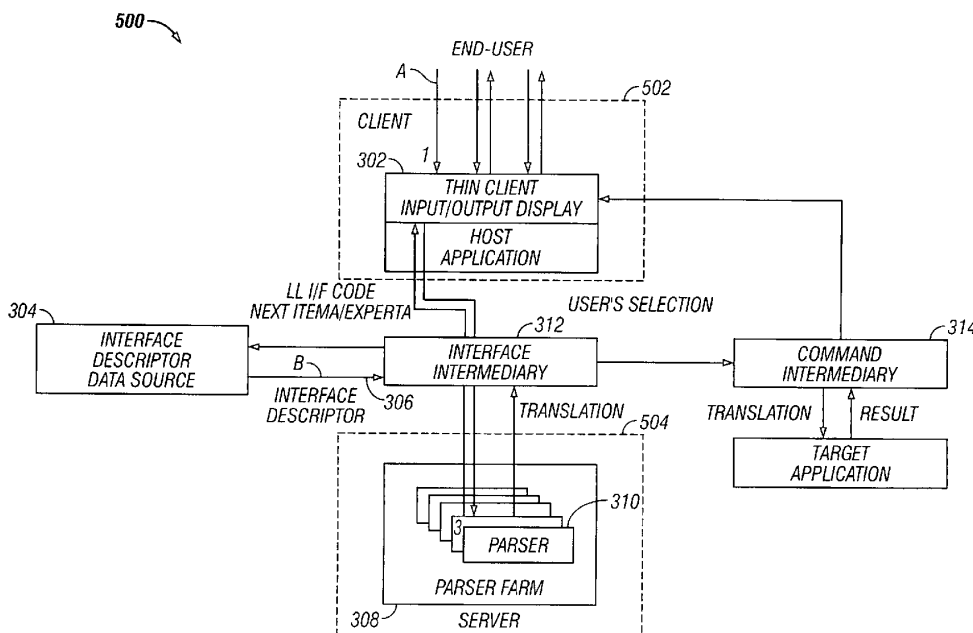
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(57) **ABSTRACT**

A method for a guided natural language interface includes inputting to a thin client a query, communicating to an interface intermediary, communicating to an interface descriptor data source, generating an interface descriptor, communicating the interface descriptor to the interface intermediary, communicating the interface descriptor to a parser farm, requesting an appropriate parser corresponding to the interface descriptor, assigning an appropriate parser, parsing, communicating a translation from the step of parsing, to the interface intermediary, and communicating the translation to the thin client. The thin client can be geographically remote from any or all of the steps other than the step of inputting, such that the method is performed over a disparate enterprise, such as a network, for example, the Internet.

33 Claims, 18 Drawing Sheets



100

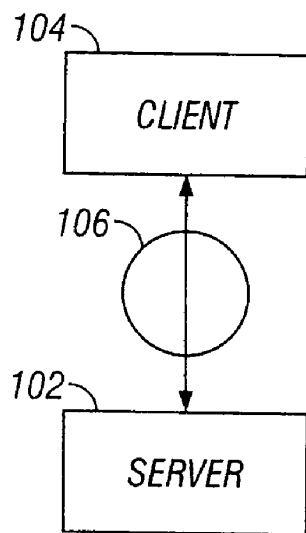


FIG. 1

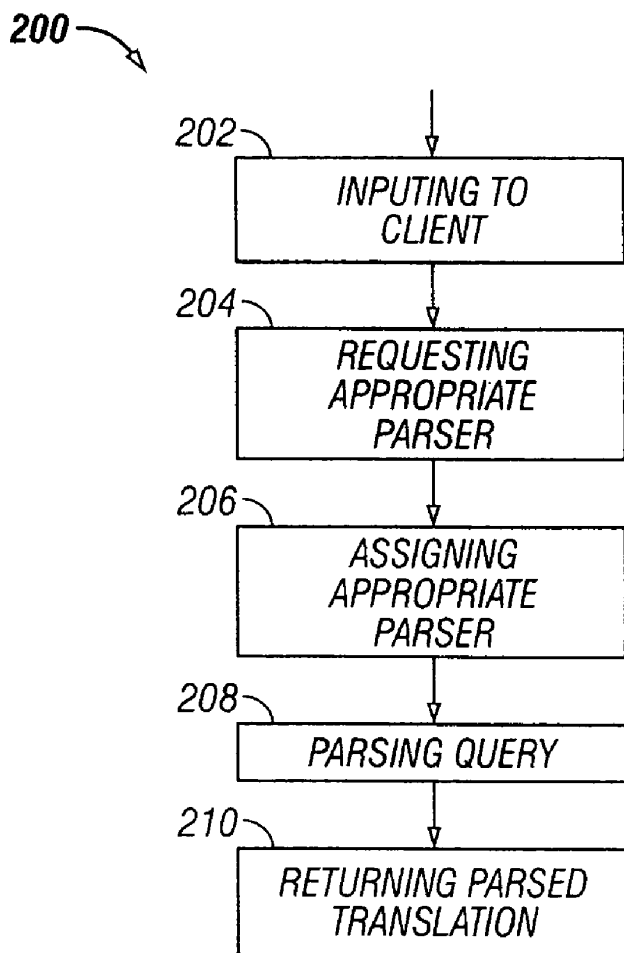


FIG. 2

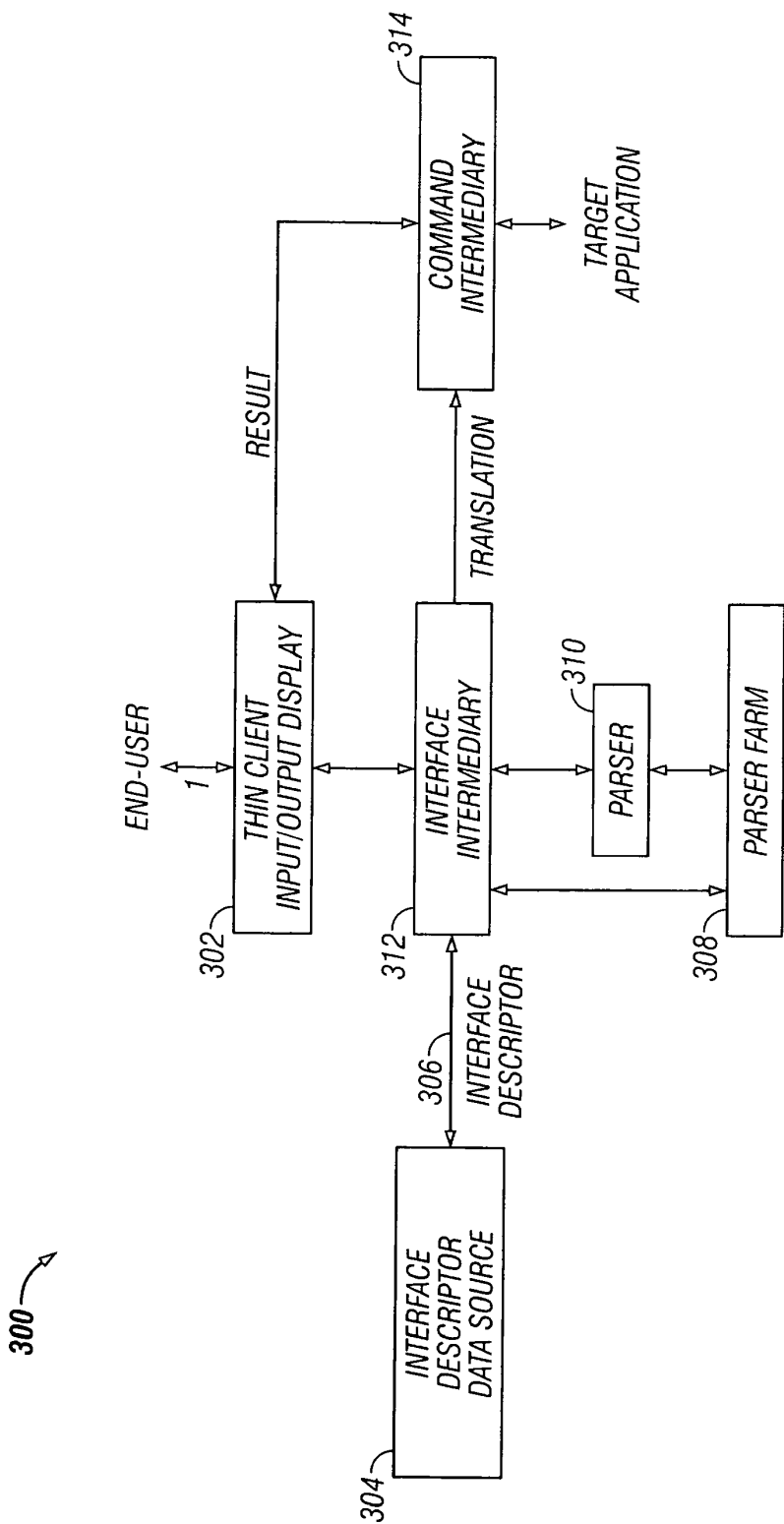


FIG. 3

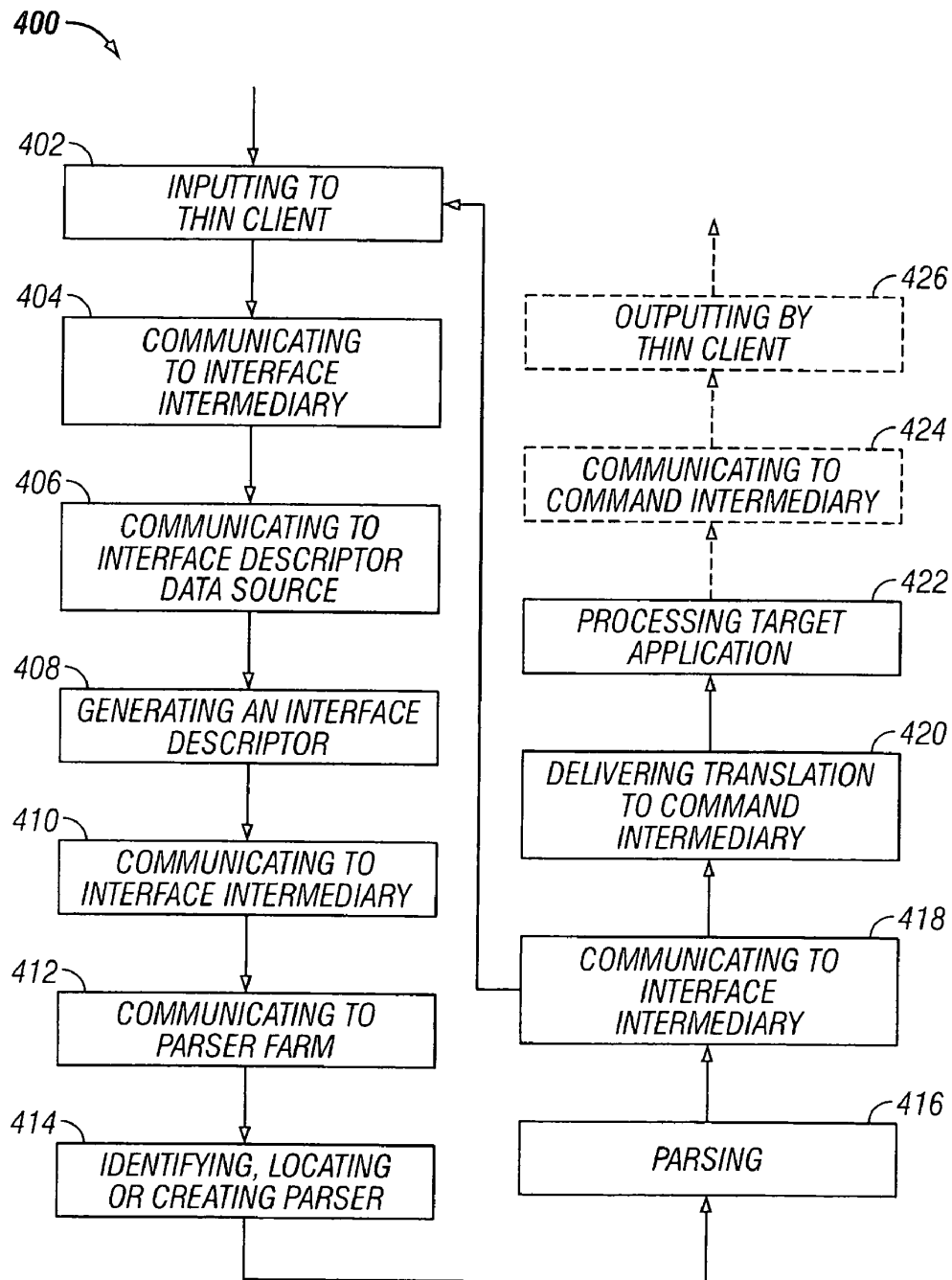


FIG. 4

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