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(54) **QUERY SCHEDULING IN A PARALLEL-PROCESSING DATABASE SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 774 days.

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(57) **ABSTRACT**

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(52) **U.S. Cl.** **707/3; 707/10; 718/102; 709/201**

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See application file for complete search history.

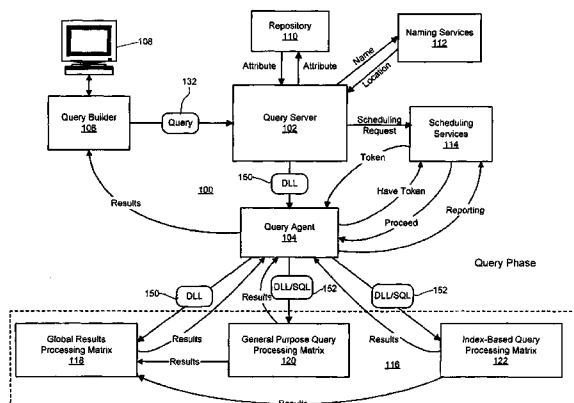
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A system and method for scheduling database operations to one or more databases in a parallel-processing database system are described herein. After a query server generates a dynamic-link library (DLL) or other executable representative of one or more database operations to a database, the query server notifies a scheduling services module of the generation of the DLL and submits the DLL to a query agent. The query agent notifies the scheduling services module of its receipt of the DLL. Based on any of a variety of considerations, the scheduling services module schedules a time of execution for the DLL by one or more processing matrices that store the database. At the scheduled time, the scheduling services module directs the query agent to submit the DLL to the indicated processing matrices. The scheduling services module also can be adapted to monitor the execution of previously submitted DLLs by one or more processing matrices and adjust the scheduled times of execution for subsequent DLLs accordingly.

25 Claims, 21 Drawing Sheets



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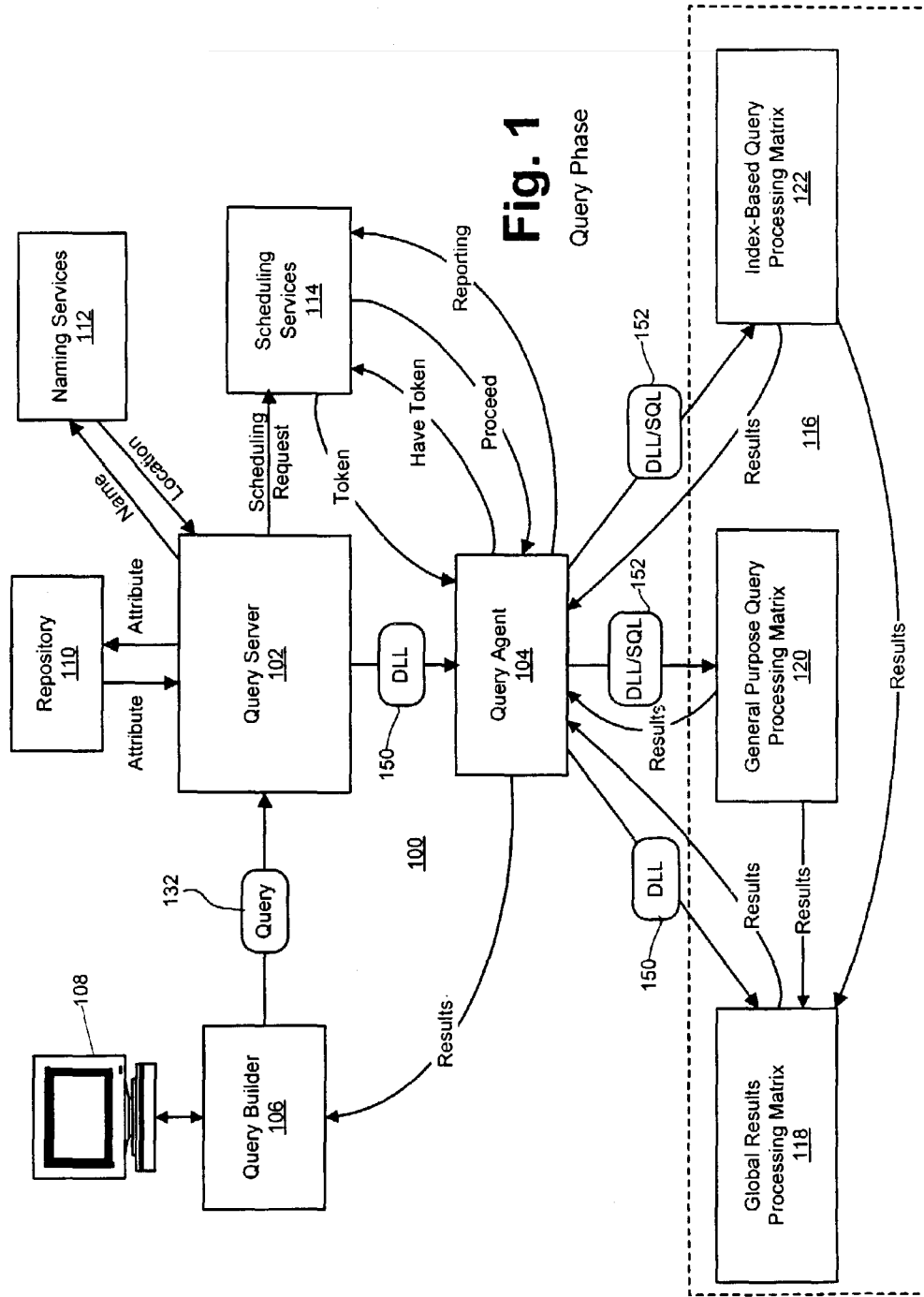


Fig. 1
Query Phase

Fig. 2

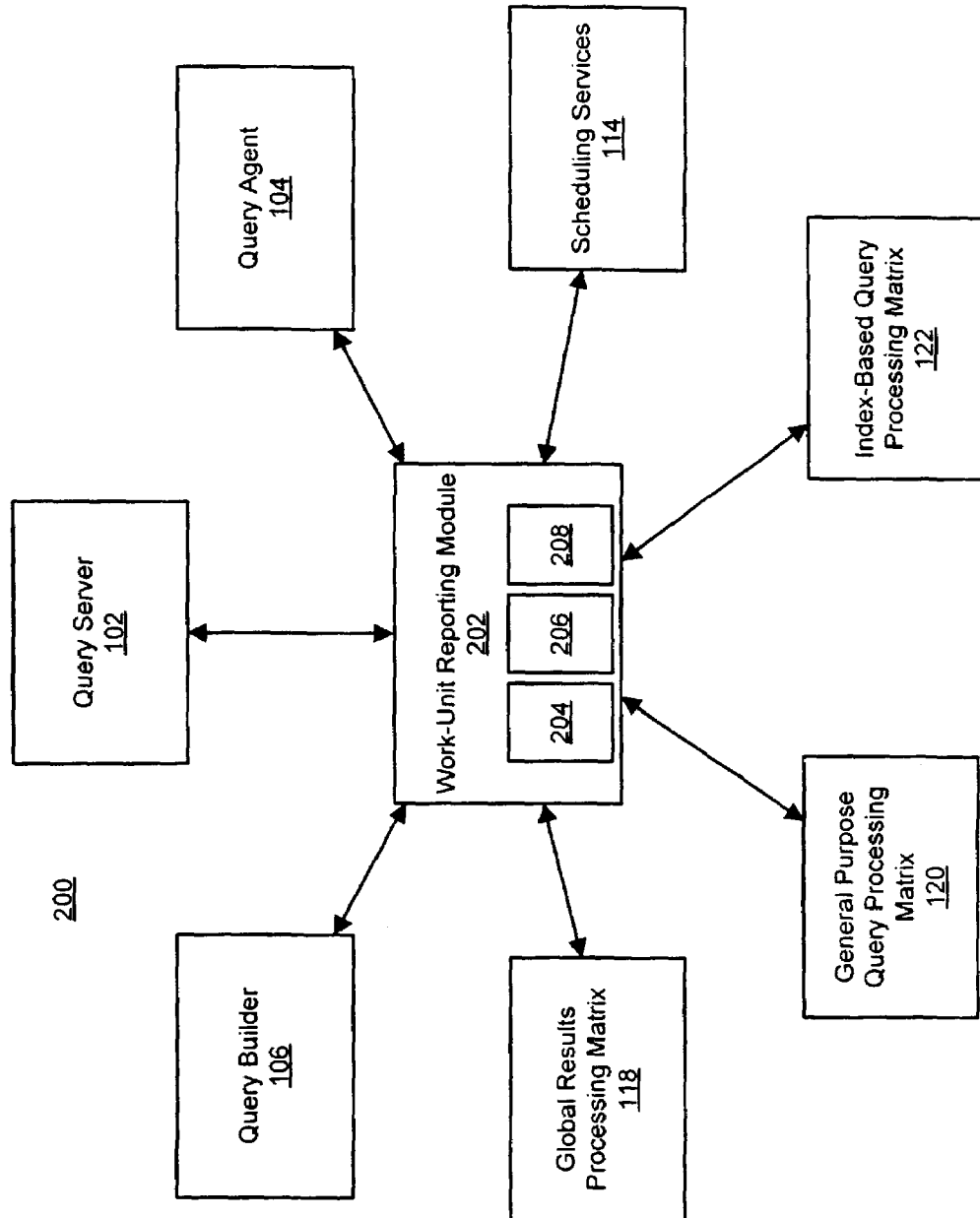
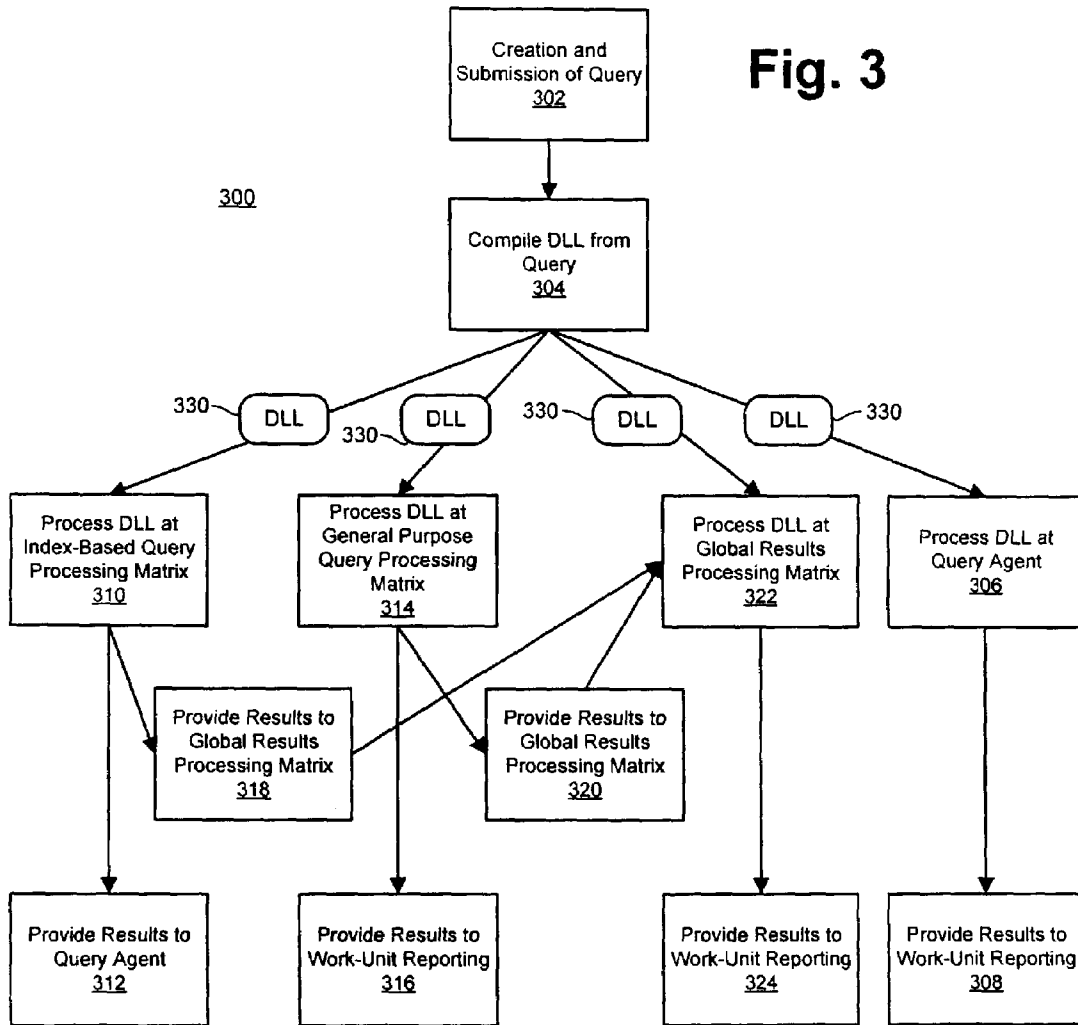


Fig. 3



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