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(54) Title: HITLESS APPLICATION UPGRADE FOR SIP SERVER ARCHITECTURE

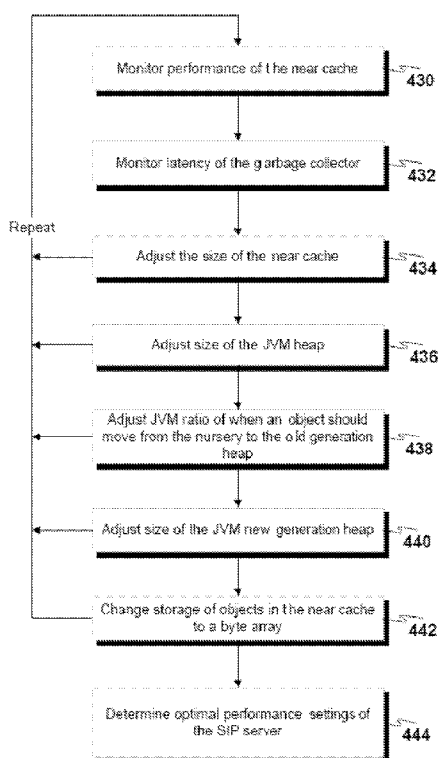


FIGURE 4C

(57) Abstract: The SIP server can be comprised of an engine tier, and a state tier distributed on a cluster network environment. The engine tier can send, receive and process various messages. The state tier can maintain in-memory state data associated with various SIP sessions. Various applications can be running on the engine tier. A new version of an application can be deployed along side the old versions, simultaneously tutoring on the SIP server (Fig 4C, #440). Incoming messages for new calls can be directed by the SIP server to the new version of the application. Incoming messages for previously established calls can be directed to the old version of the application (Fig 4C, #440). Once the old version is finished processing calls, it can be undeployed (Fig 4C, #448).



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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,747,970 B1 (Lamb et al) 08 June 2004 (08.06.2004) Abstract Col Lines 42 57-67 1 53-64 24 27-39 22 26-39 14 47-61 15 1-26	1-19

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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PCT/US07/69021**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,704,933 B1 (Tanaka et al) 09 March 2004 (09.05.2004) Abstract, Figures 2B, 4, 32 Col Lines 1 46-60 2 56 - 68	1-19