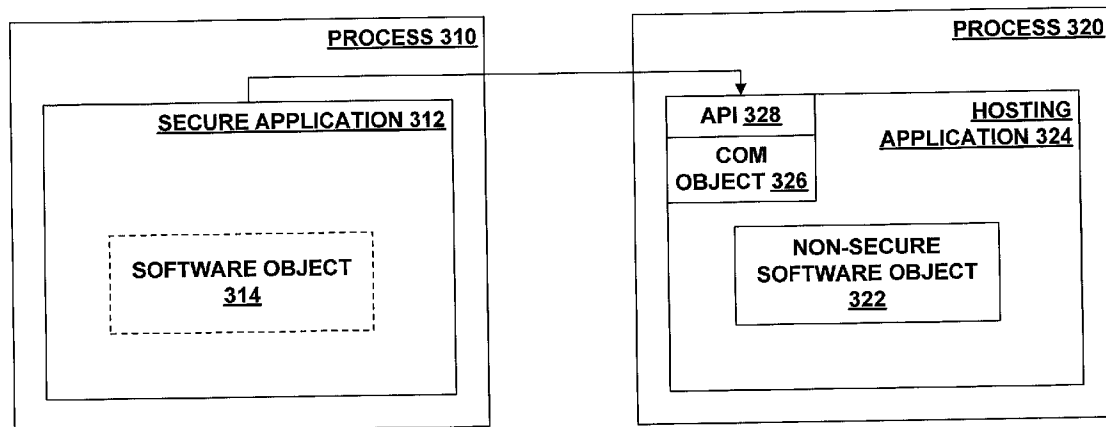


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INTEGRATING SECURE AND NON-SECURE
SOFTWARE OBJECTS****Publication Classification**(51) **Int. Cl.⁷** **H04L 9/00**
(52) **U.S. Cl.** **713/152**(75) **Inventor: Attila Narin, Bothell, WA (US)**

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(57) **ABSTRACT**

A secure first process uses a non-secure software object by hosting said non-secure software object in a separate second process, where the first process's address space is inaccessible to the second process. The first process communicates with the second process, preferably by means of a COM API that the second process exposes to the first process. The application that runs in the second process may expose APIs of the hosted non-secure object to the first process, and the first process may communicate with the non-secure object hosted in the second process through this API. In a preferred embodiment, the second process renders its output in a child window of the first process, so that the use of a second process to host non-secure software objects is transparent to a user of the first process.

(73) **Assignee: Microsoft Corporation**(21) **Appl. No.: 09/837,904**(22) **Filed: Apr. 19, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No. 60/215,342, filed on Jun. 30, 2000.**

Computer 100

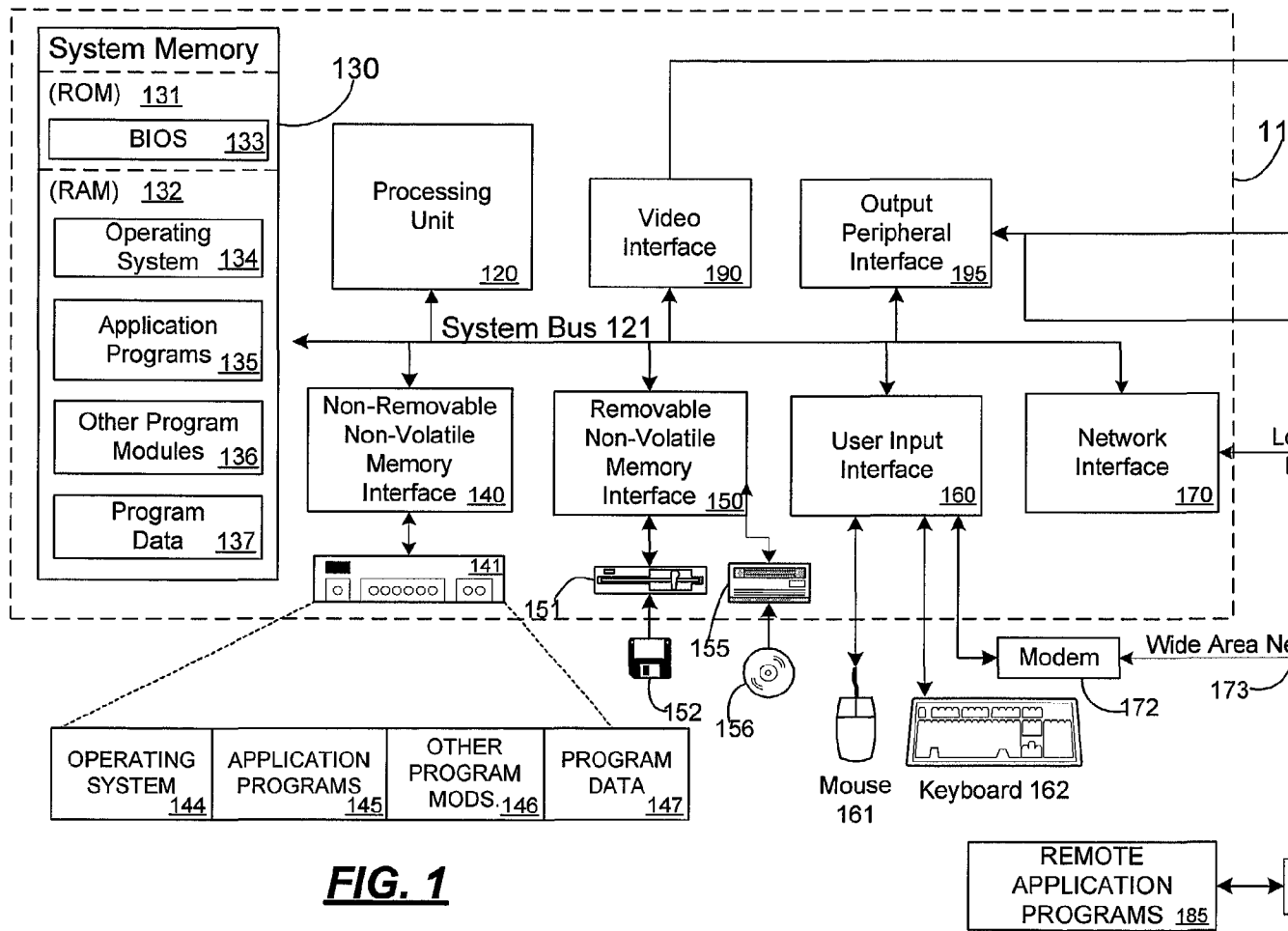
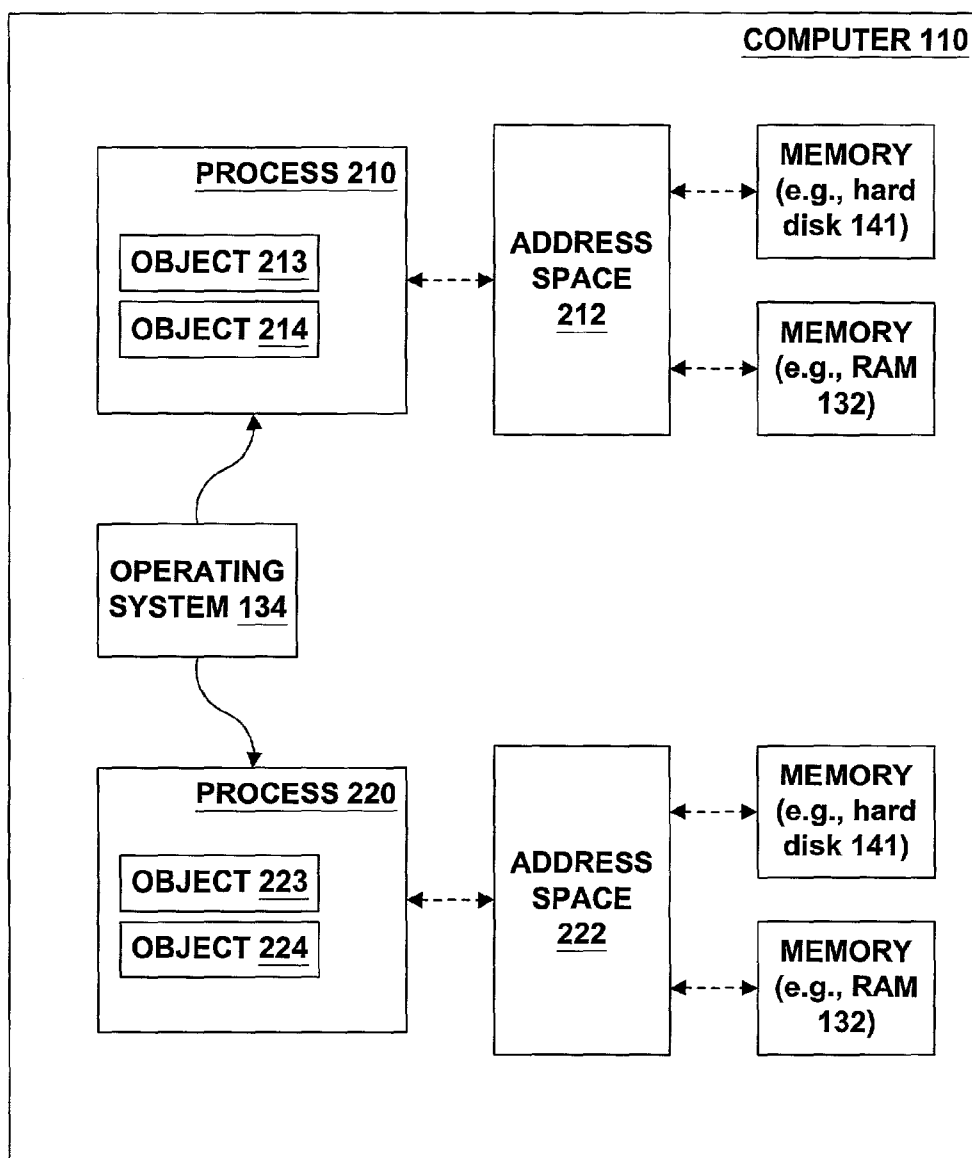


FIG. 1

**FIG. 2**

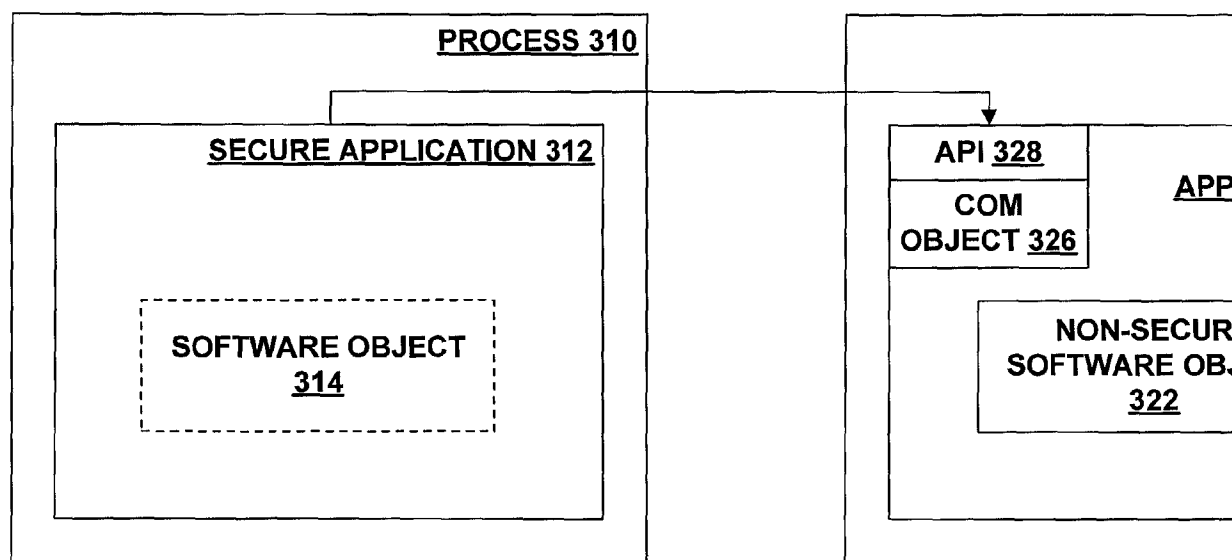
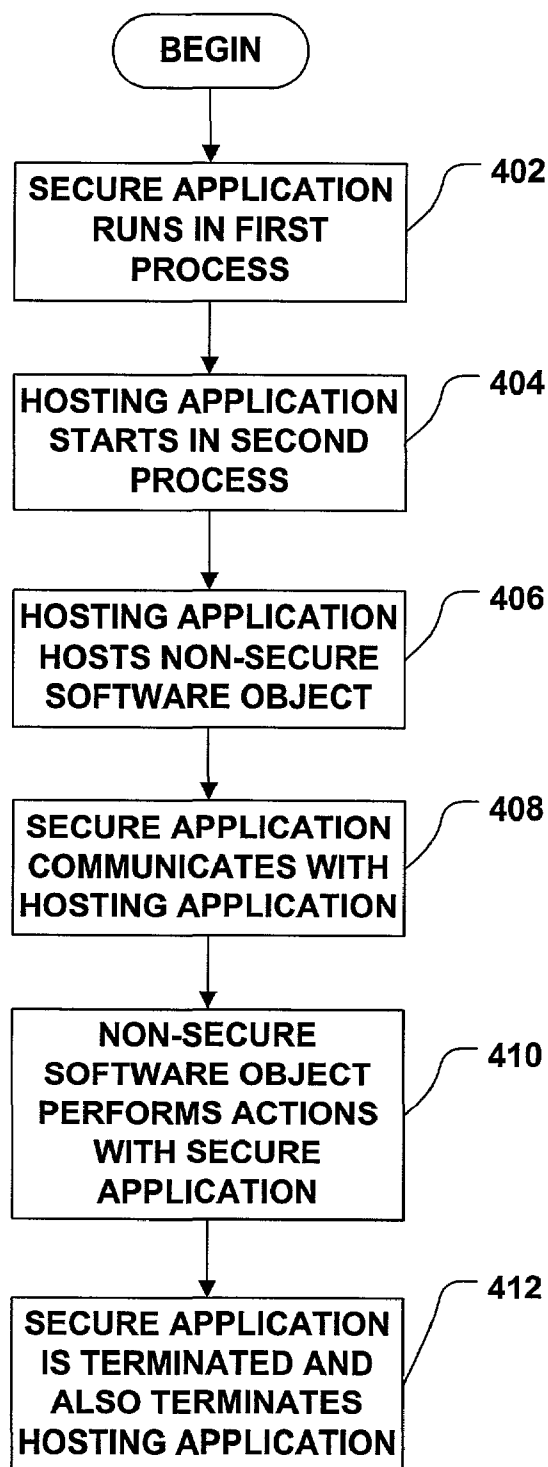


FIG. 3

**FIG. 4**

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