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(54) Title: METHOD OF CREATING AND USING SYSTEM–INDEPENDENT SOFTWARE COMPONENTS

(57) Abstract

A software application (100) is analyzed to identify its "core functionalities" (102). Object–oriented core objects (104) containing no application–specific control behavior are created to perform these essential functions. Event traces are identified. This control behavior is embodied in "control objects" (108), which invoke the operation of various core objects as needed to execute a particular event trace. Because the core functionalities and control behaviors are separated, the core objects are application–independent, and can be re–used in other applications without modification by modifying their associated control objects to different application–specific event traces. The control object can be a high level "segment controller" (120), controlling the program flow among a group of core objects which perform a particular function, or a "core object controller" (126) which serves the same function for a group of lower–level objects. Core object reusability is further enhanced by using "view managers" (150).

