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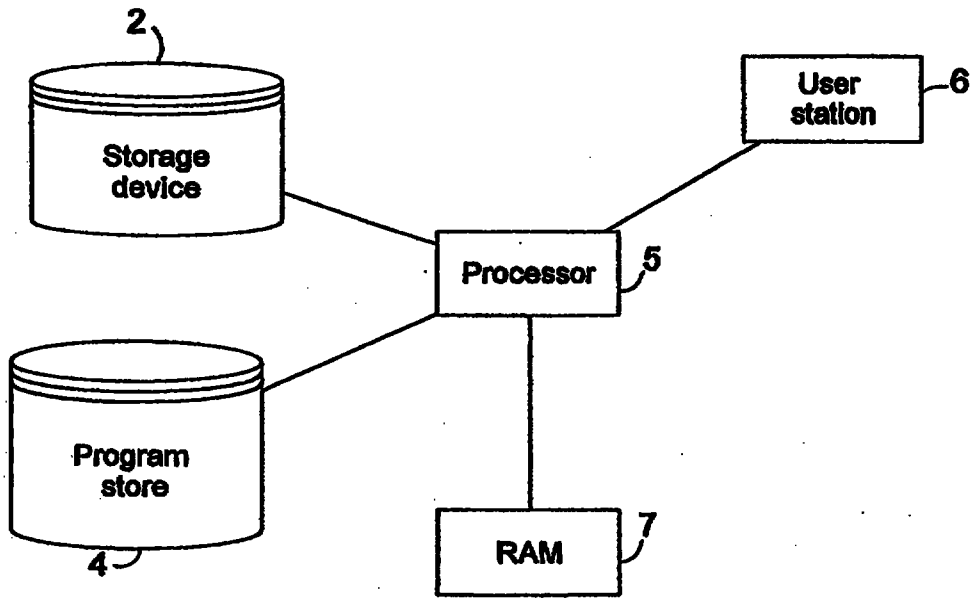
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(54) Title: VALUE–INSTANCE–CONNECTIVITY COMPUTER–IMPLEMENTED DATABASE



(57) Abstract

A computer–implemented database and method providing an efficient, ordered reduced space representation of multi–dimensional data. The data values for each attribute are stored in a manner that provides an advantage in, for example, space usage and/or speed of access, such as in condensed form and/or sort order. Instances of each data value for an attribute are identified by instance elements, each of which is associated with one data value. Connectivity information is provided for each instance element that uniquely associates each instance element with a specific instance of a data value for another attribute.