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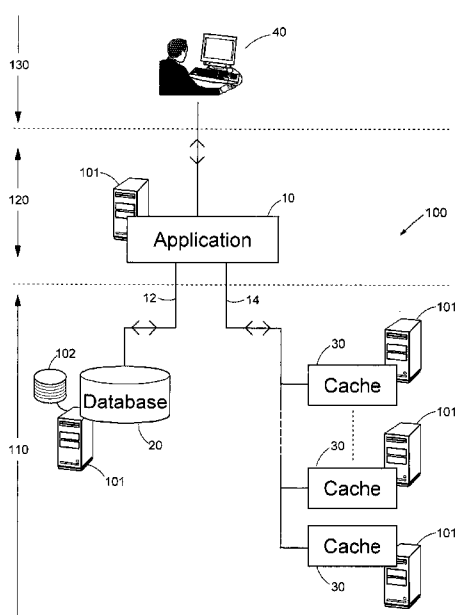
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(54) Title: METHOD AND SYSTEM OF STORING AND RETRIEVING DATA

Figure 1



(57) Abstract: A method and a system of storing data by a software application are described. In a data storage system comprising one or more database systems and at least one cache node the software application interfaces independently the one or more database systems on a first dedicated interface, and the at least one cache node on a second dedicated interface. The method and system are characterized in that: each read query of the data storage system by the software application is first solely issued to the plurality of cache nodes which returns the queried data if available. If not available, the software application receives a miss that triggers a fetch of the queried data from the one or more database systems. Upon having retrieved the queried data, the software application adds the queried data to at least one cache node. The method and system are further characterized in that each writing of the one or more database systems by the software application is also concurrently performed in the at least one cache node. Hence, population of the at least one cache node is quickly done at each missed read query of the at least one cache node and at each write query of the data storage system.