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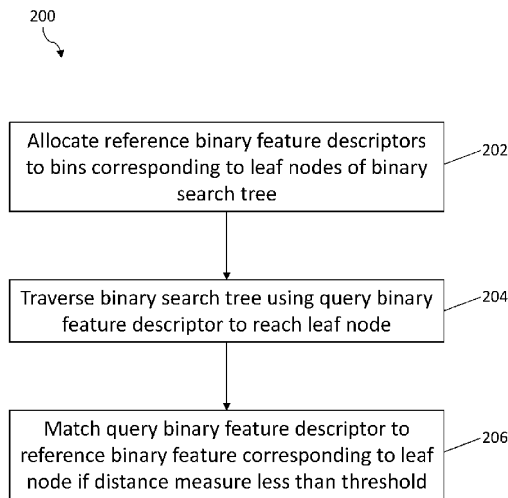


FIG.2

(57) Abstract: Binary feature matching methods and systems are described A feature matching method of matching a query binary feature descriptor with a reference binary feature descriptor comprises: allocating reference binary feature descriptors to bins corresponding to leaf nodes of a balanced binary search tree based on bit values of selected bit positions of the reference binary feature descriptors; traversing the binary search tree using the query binary feature descriptor to reach a leaf node and identifying a reference binary feature descriptor allocated to a bin corresponding to the leaf node; and matching the query binary feature descriptor to the identified reference binary feature descriptor if a distance measure between the query binary feature descriptor and the identified reference binary feature descriptor is less than a threshold.

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