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(54) Title: DISTRIBUTED IN-MEMORY SPATIAL DATA STORE FOR K-NEAREST NEIGHBOUR SEARCH

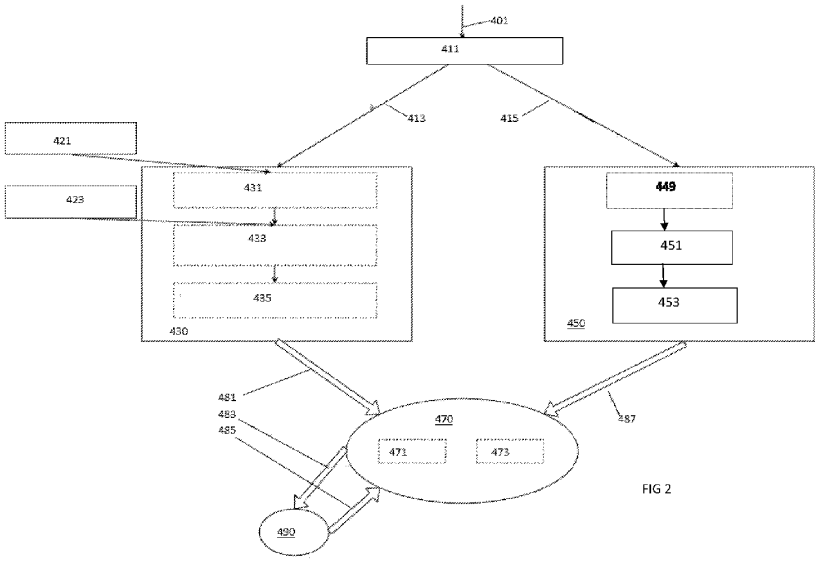


FIG 2

(57) Abstract: A database system is configured to enable fast searching for neighbours nearest to a mobile object located in a geographical space made up of plural spatially distinct subspaces, each being made up of plural cells. The database system has an operating system controlling storage of object data amongst the plural storage nodes, to represent one or more spatially distinct subspaces, in a respective single one of the storage nodes. Location data of each object is used to index that object with respect to cells making up each spatially distinct subspace in each node.

[Continued on next page]

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