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(54) Title: DATA PROCESSING SYSTEM AND METHOD THEREOF

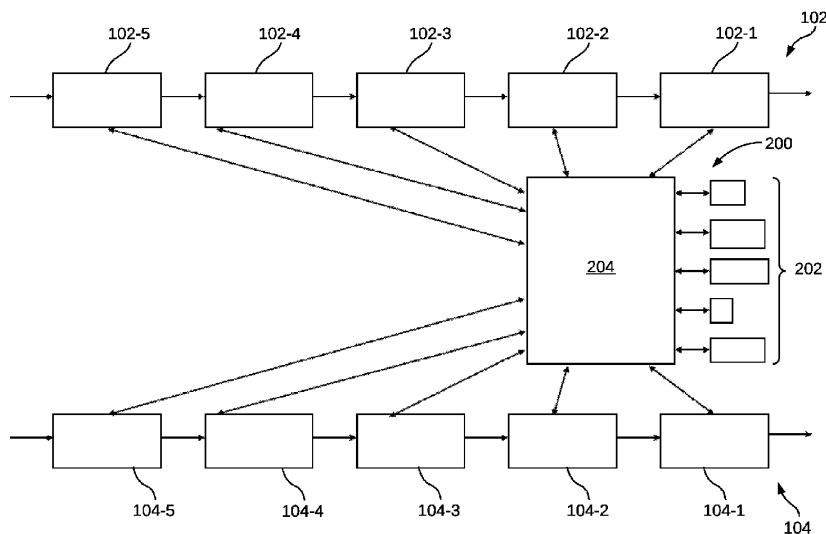


FIG. 2

(57) Abstract: A data processing system is hereinbefore described with reference to or as illustrated in any of the accompanying drawings. The data processing system includes a plurality of RAM blocks, a configuration selector, and a switching fabric. The configuration selector identifies an active pipeline from a plurality of pipelines, such that each of the plurality of pipelines carries a dataset to be processed. Each of the plurality of pipelines implements a plurality of stages. The switching fabric dynamically routes requesting stages from the plurality of stages of the active pipeline to a set of RAM blocks corresponding to the requesting stages, for performing reading and writing operations. A method of processing data as hereinbefore is described with reference to or as illustrated in any of the accompanying drawings.

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