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(54) Title: OBLIVIOUS FILTERING OF DATA STREAMS

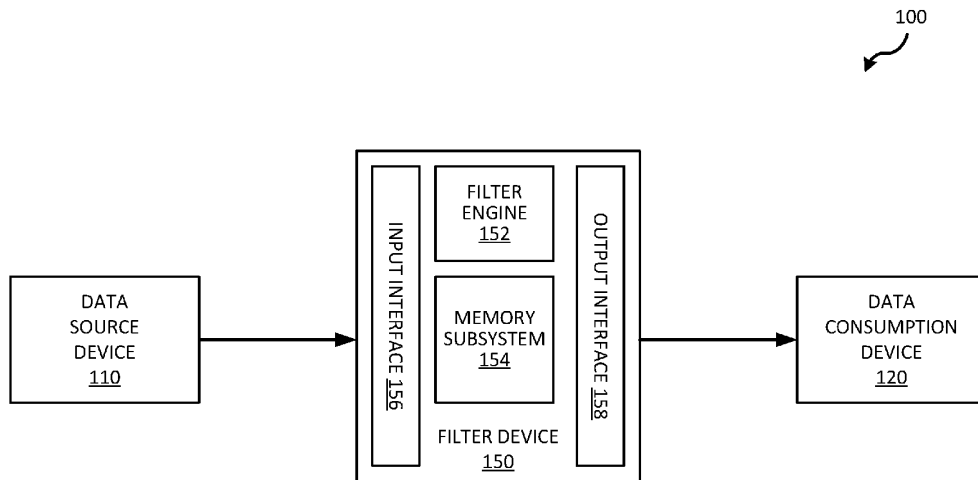


FIG. 1

(57) Abstract: A technique for oblivious filtering may include receiving an input data stream having a plurality of input elements. For each of the input elements received, a determination is made as to whether the input element satisfies a filtering condition. For each of the input elements received that satisfies the filtering condition, a write operation is performed to store the input element in a memory subsystem. For those of the input elements received that do not satisfy the filtering condition, at least a dummy write operation is performed on the memory subsystem. The contents of the memory subsystem can be evicted to an output data stream when the memory subsystem is full. The memory subsystem may include a trusted memory and an unprotected memory.

[Continued on next page]

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