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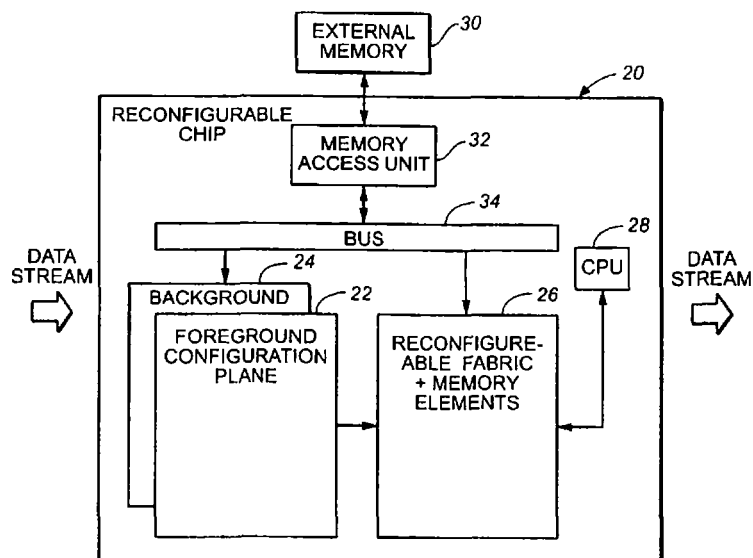
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(54) Title: SYSTEM AND METHOD OF IMPLEMENTING A WIRELESS COMMUNICATION SYSTEM USING A RECONFIGURABLE CHIP WITH A RECONFIGURABLE FABRIC



(57) Abstract: A wireless communication system can be implemented by using one or more reconfigurable chips, the reconfigurable chips having background and foreground configuration planes. The background plane can be loaded with one communication algorithm, while another portion of the communication algorithm is configured into the foreground plane and operating in the reconfigurable fabric. The switching between the foreground and background configurations can be done almost instantaneously. The system of the present invention allows a complicated communication system, such as a base station receiver for a wireless communication system, to be implemented on a small reconfigurable chip rather than a much larger FPGA.

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