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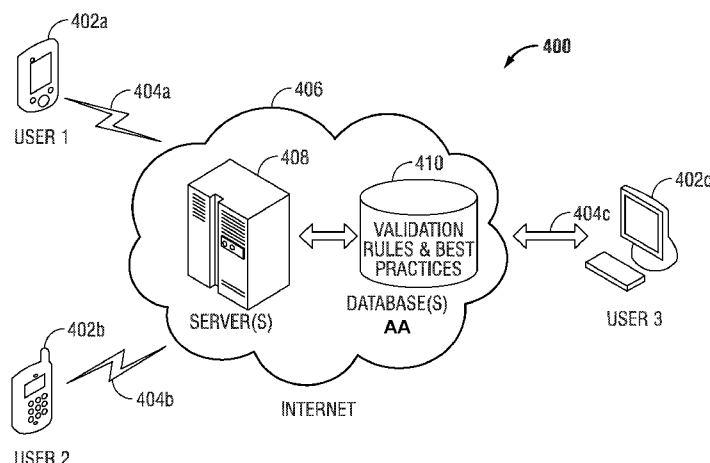


FIG. 4

(57) **Abstract:** The disclosed embodiments allow a user to request new product designs and design changes remotely. The requested design or change is then submitted to a network-based automated process. The process may be remotely accessed by the user through a network connection. In one embodiment, the user may meet directly with a customer, pull up the specifications for the product in question, select a design or change desired by the customer, and submit the design or change. The process works in the background to validate the requested design according to one or more validation rules and/or best practices, and completes many of the necessary tasks to allow the requested design to proceed to manufacturing. Once the process has successfully completed the requested change, a notification is sent to the user containing information about the new or changed product, such as the new part number, order number, and the like.