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(54) Title: DELAY COMPENSATION WHILE CONTROLLING A REMOTE SENSOR

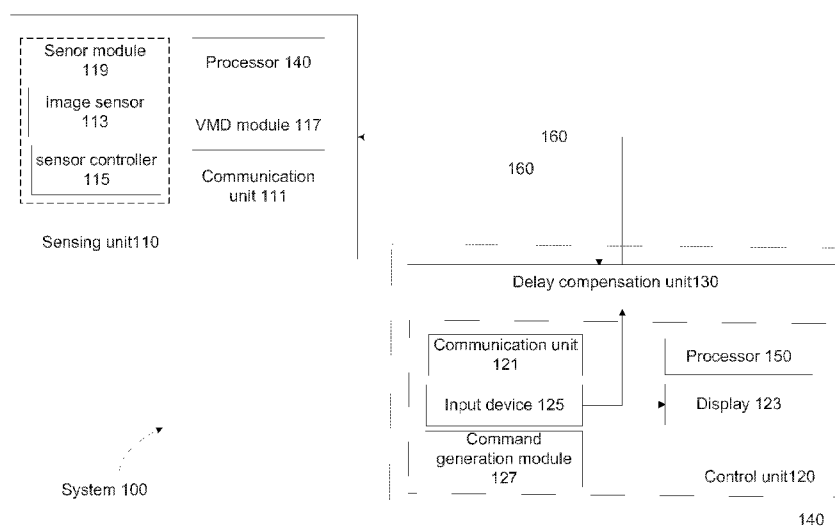


Fig. 1

(57) **Abstract:** The presently disclosed subject matter includes a method, a system and a delay compensation unit configured for compensating a delay in communication between a sensing unit and a control unit. A succession of two or more captured images are received from the sensing unit; information indicative of command dynamics parameters are obtained from the control unit; based on the information and a respective transfer function which models the dynamics of the sensor module, the expected reaction of the sensing module to the command is determined; and information indicative of the reaction before the command is executed in the sensing unit can be provided.