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(54) **Title:** SYSTEM AND METHOD FOR PROVIDING A MAGNETIC-BASED CONTROLLER FOR A MOBILE ELECTRONIC DEVICE

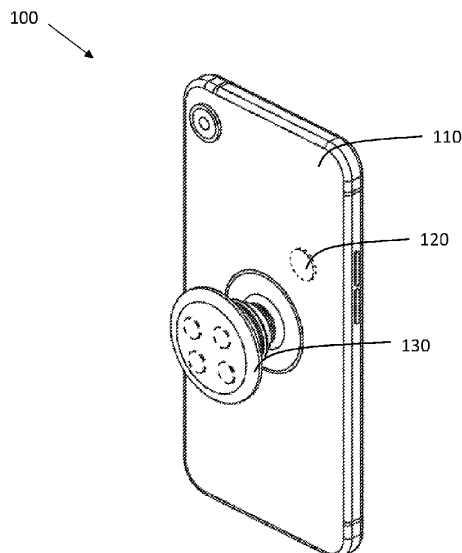


FIG. 2A

(57) **Abstract:** A system comprises a mobile electronic device having a magnetometer sensor and one or more software modules executable by the mobile electronic device. The system further includes a controller having one or more magnets, where the controller may be detachably attached to the mobile electronic device or its case. The magnets and at least a portion of the controller may move relative to the mobile electronic device when attached to the mobile electronic device, where such relative movement is detectable by the magnetometer sensor. The software modules, when executed, may cause the mobile electronic device to perform an action based on magnetic field signals received from the magnetometer sensor that are generated in response to the relative movement of the magnets and at least the portion of the controller.



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