

**68.** The apparatus of claim 59, wherein the ground comprises a contact pad.

**69.** The apparatus of claim 59, wherein the ground comprises a housing.

**70.** The apparatus of claim 69, wherein the housing is associated with a handheld device.

**71.** The apparatus of claim 70, wherein the handheld device comprises one of a personal digital assistant (PDA), a cellular phone, and an electronic book.

**72.** The apparatus of claim 59, wherein a touch screen comprises the substantially-planar contact surface.

**73.** The apparatus of claim 59, wherein a touchpad comprises the substantially-planar contact surface.

**74.** The apparatus of claim 59, wherein the substantially-planar contact surface is textured.

**75.** An apparatus, comprising:

a substantially-planar contact surface;

a piezoelectric member coupled to the substantially-planar contact surface; and

a spring element configured to couple the substantially-planar contact surface to a ground, a spring constant of the spring element configured to cause the piezoelectric actuator to oscillate at a predetermined frequency to provide haptic feedback.

**76.** The apparatus of claim 75, wherein the haptic feedback is in response to an input associated with the substantially-planar contact surface.

**77.** The apparatus of claim 75, wherein the predetermined frequency is associated with a resonant frequency of the apparatus.

**78.** The apparatus of claim 75, wherein the predetermined frequency is associated with a modulation of a carrier frequency of the piezoelectric actuator.

**79.** The apparatus of claim 75, further comprising a spacer disposed between the substantially-planar contact surface and the ground, the predetermined frequency being associated with a mass of the spacer.

**80.** The apparatus of claim 75, wherein the ground comprises a housing.

**81.** The apparatus of claim 80, wherein the housing is associated with a handheld device.

**82.** The apparatus of claim 81, wherein a touch screen comprises the substantially-planar contact surface.

**83.** The apparatus of claim 75, wherein a touchpad comprises the substantially-planar contact surface.

**84.** The apparatus of claim 75, wherein the substantially-planar contact surface is textured.

**85.** An apparatus, comprising:

a ferromagnetic element having a center pole disposed between two side poles, the center pole being associated with a coil;

at least one magnet configured to be in magnetic communication with the center pole and the side poles;

a substantially-planar contact surface coupled to the at least one magnet; and

a coupling means disposed between the substantially-planar contact surface and the ferromagnetic element, the coupling means configured to facilitate a relative motion between the substantially-planar contact surface along with the at least one magnet and the ferromagnetic element when the coil carries a current.

**86.** An apparatus of claim 85, wherein the coupling means comprises a plurality of rollers.

**87.** An apparatus of claim 86, wherein the rollers are coupled to a cage member.

**88.** An apparatus of claim 85, wherein the substantially-planar contact surface is coupled to the at least one magnet via a backing plate.

**89.** An apparatus of claim 88, wherein the backing plate comprise steel.

**90.** An apparatus of claim 88, further comprising a flexure element disposed between the backing plate and the ferromagnetic element, the flexure element configured to provide a spring centering force between the backing plate and the ferromagnetic element.

**91.** An apparatus of claim 85, wherein a touch screen comprises the substantially-planar contact surface.

**92.** An apparatus of claim 85, wherein the relative motion corresponds with an input associated with the substantially-planar contact surface.

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