

being mounted on a bottom surface of the plunger and the magnet being mounted on the plunger between the absorber and the metal plate.

9. An acoustic wave switch as recited in claim 1 wherein the feedback mechanism includes an electrically actuated member mounted on a back surface of the substrate, the member having a striker that is moved against the substrate to strike the substrate when the member is actuated in response to a detectable change in the acoustic wave indicating a touch on a touch surface.

10. An acoustic wave switch comprising:

a substrate;

a mesa formed on the substrate, the mesa defining an acoustic wave cavity;

a transducer coupled to the mesa or a surface of the substrate opposite the mesa to generate an acoustic wave in the cavity wherein a touch on a touch surface of the substrate produces a detectable change in the acoustic wave;

a feedback member overlying the touch surface and spaced therefrom in an unactuated position and movable towards the touch surface by a force acting thereon to actuate the switch by producing a detectable change in the acoustic wave; and

an acoustic wave absorber disposed between the feedback member and the touch surface.

11. An acoustic wave switch as recited in claim 10 wherein the feedback member includes a deformable dome.

12. An acoustic wave switch as recited in claim 11 wherein the dome is a truncated dome.

13. An acoustic wave switch as recited in claim 10 wherein the absorber is mounted on a surface of the feedback member facing the touch surface.

14. An acoustic wave switch as recited in claim 10 wherein the absorber overlies the substrate such that a touch by the feedback member on an area of the absorber overlying the cavity produces a detectable change in the acoustic wave.

15. An acoustic wave switch as recited in claim 10 further including at least one magnet to hold the feedback member in an unactuated position until a force acting on the member

actuates the switch and the magnet returning the member to an unactuated position when the force is removed.

16. An acoustic wave switch as recited in claim 10 wherein the feedback member includes a rocker having a pivot with a magnet mounted on the rocker on a first side of the pivot to hold the feedback member in an unactuated position and the magnet returning the feedback member to an unactuated position when the force is removed.

17. An acoustic wave switch as recited in claim 16 wherein the absorber is mounted on the rocker on a second side of the pivot.

18. An acoustic wave switch as recited in claim 16 wherein the feedback member includes a plunger extending through an aperture in a metal plate spaced from the substrate, the absorber being mounted on a bottom surface of the plunger and further including at least one magnet mounted on the plunger between the absorber and the metal plate to hold the feedback member in an unactuated position.

19. An acoustic wave switch comprising:

a substrate;

a mesa formed on the substrate, the mesa defining an acoustic wave cavity;

a transducer coupled to the mesa or a surface of the substrate opposite the mesa to generate an acoustic wave in the cavity wherein a touch on a touch surface of the substrate produces a detectable change in the acoustic wave;

a feedback member mounted on a backside of the substrate, the feedback member being electrically actuated in response to a detectable change in the acoustic wave indicating a touch to provide a tactile response felt by the user through the substrate and/or an audible response.

20. An acoustic wave switch as recited in claim 1 wherein the feedback member includes an electrically actuated member mounted on a back surface of the substrate, the member having a striker that is moved against the substrate to strike the substrate when the member is actuated in response to a detectable change in the acoustic wave indicating a touch on a touch surface.

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