tor screen on an automobile, an automated teller machine ("ATM") display screen), a remote for controlling electronics equipment (e.g., audio/video, garage door, home security, etc.) and a gaming controller (e.g., joystick, mouse, gamepad specialized controller, etc.). The operation of such input and/or output devices is well known to those skilled in the art.

What is claimed is:

1. A haptic device comprising:
a housing;
an input interface coupled to said housing through a suspension; and
an actuator coupled to said input interface;
wherein said suspension is adapted so that when said actuator generates first vibrations at a first frequency, said first vibrations are substantially isolated from said housing, and when said actuator generates second vibrations at a second frequency, said second vibrations are substantially passed through to said housing.

2. The device of claim **1**, wherein said first frequency is greater than said second frequency.

3. The device of claim **1**, wherein said first frequency is approximately >200 Hz.

4. The device of claim **1**, wherein said second frequency is approximately 100 Hz-200 Hz.

5. The device of claim **1**, wherein said actuator is a Linear Resonant Actuator.

6. The device of claim **1**, wherein said suspension comprises a foam material.

7. The device of claim **6**, wherein said foam material comprises PORON®.

8. The device of claim **1**, wherein said first vibrations are substantially applied on said input interface in response to contact on said input interface.

9. The device of claim **8**, wherein said first vibrations simulate a mechanical button.

10. The device of claim **1**, wherein said second vibrations provide an alert.

11. The device of claim **1**, wherein said input interface is a touchscreen.

12. A method of operating a device comprising a housing and an input interface, said method comprising:
generating a first vibration at a first frequency by an actuator, wherein said first vibration is substantially isolated from said housing by a suspension coupled to said input interface; and
generating a second vibration at a second frequency by the actuator, wherein said second vibration is substantially passed through to said housing.

13. The method of claim **12**, wherein the first frequency is approximately >200 Hz.

14. The method of claim **12**, wherein the second frequency is approximately 100 Hz-200 Hz.

15. The method of claim **12**, wherein generating the first vibration is in response to the detection of contact on the input interface.

16. The method of claim **15**, wherein said first vibration simulates a mechanical button.

17. The method of claim **12**, wherein generating the second vibration is in response to a need to provide an alert.

18. The method of claim **12**, wherein said input interface is a touchscreen.

19. The method of claim **12**, wherein said first vibration is greater than said second vibration.

20. A handheld device comprising:
a housing;
an input interface coupled to said housing;
a suspension coupled to said housing;
an actuator coupled to said input interface; and
a controller coupled to said actuator adapted to generate a first vibration at a first frequency and a second vibration at second frequency;
wherein said suspension is adapted to substantially isolate the first vibration from said housing, and substantially apply the second vibration on said housing.

21. The device of claim **20**, wherein said first frequency is approximately >200 Hz.

22. The device of claim **20**, wherein said second frequency is approximately 100 Hz-200 Hz.

23. The device of claim **20**, wherein said actuator is a Linear Resonant Actuator.

24. The device of claim **20**, wherein said suspension comprises a foam material.

25. The device of claim **24**, wherein said foam material comprises PORON®.

26. The device of claim **20**, wherein said first vibration is substantially applied on said input interface in response to contact on said input interface.

27. The device of claim **26**, wherein said first vibration simulates a mechanical button.

28. The device of claim **27**, wherein said second vibration provides an alert.

29. The device of claim **20**, wherein said input interface is a touchscreen.

30. The device of claim **20**, wherein said first vibration is greater than said second vibration.

31. A handheld device comprising:
a housing;
an input interface coupled to said housing;
a suspension coupled to said housing;
an actuator coupled to said input interface; and
means for generating a first vibration at a first frequency by said actuator, wherein said first vibration is substantially isolated from said housing; and
means for generating a second vibration at a second frequency by said actuator, wherein said second vibration is substantially passed through to said housing.

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