position to signal no expansion, a second position to signal expansion of the cavity **125**, a third position to signal expansion of the second cavity **125***b*, and/or a fourth position to signal expansion of both the cavities **125** and **125***b*. The slider may alternatively include a first slider position to signal no expansion, a second position to signal a first degree of expansion of the cavity **125**, and a third position to signal a second degree of expansion of the cavity **125**. The slider of this variation may be used to indicate the range of degrees of expansion available with the displacement device **130**. Alternatively, the user interface enhancement system **100** may include a second button that functions to signal to the displacement device **130** to expand the second cavity **125***b*. However, any other suitable user interface may be used to allow the user to selectively expand the cavity **125** and/or the second cavity **125***b* electrically.

[0053] The user preferably actuates the expansion of the cavity **125** when he or she desires tactile guidance, for example, the user may be performing an activity where it is difficult or undesirable to keep their eye on the device **10** (for example, while typing at substantially high-speeds or while driving.). In another example, the device **10** may be low on portable power and the display may be dimmed to conserve power, resulting in the lack of visual cues and the need for the alternative of tactile guidance. In such situations, the user actuates the expansion of the cavity **125** to obtain tactile guidance that allows them to use the device **10** without visual guidance. The user may also configure the level of expansion of the cavity **125**. The user may also configure the user interface enhancement system **100** to expand the cavity **125** upon activation of the device **10** or they may configure the cavity **125** to remain expanded whether the device **10** is on or off. In the variation wherein the user interface enhancement system **100** includes a second cavity **125***b*, the user also selects whether to actuate the expansion of the cavity **125** or the second cavity **125***b*, or both. However, any other suitable usage scenario may be applicable.

[0054] As a person skilled in the art will recognize from the previous detailed description and from the figures and claims, modifications and changes can be made to the preferred embodiments of the invention without departing from the scope of this invention defined in the following claims.

We claim:

1. A user interface enhancement system for a touch interface device, comprising:

a sheet that defines a surface and at least partially defines a fluid vessel arranged underneath the surface;

a volume of fluid within the fluid vessel that cooperates with the sheet to allow light to transmit an image through the sheet without substantial obstruction;

a displacement device that influences the volume of the fluid within the fluid vessel to expand and retract at least a portion of the fluid vessel, thereby deforming a particular region of the surface; and

an attachment component that mounts the sheet on the touch interface device.

2. The user interface enhancement system of claim **1**, wherein the fluid vessel includes a cavity, and wherein the displacement device influences the volume of fluid within the cavity to expand and retract the cavity, thereby deforming a particular region of the surface.

3. The user interface enhancement system of claim **2**, wherein the sheet defines a second cavity that contains a volume of fluid.

4. The user interface enhancement system of claim **3**, wherein the second cavity is substantially identical to the cavity.

5. The user interface enhancement system of claim **3**, further comprising a second displacement device that influences the volume of fluid within the second cavity to expand and retract the second cavity, thereby deforming a second particular region of the surface.

6. The user interface enhancement system of claim **3**, wherein the displacement device further influences the volume of the fluid within the second cavity to expand and retract the second cavity, thereby deforming a second particular region of the surface.

7. The user interface enhancement system of claim **6**, wherein the displacement device influences the volume of the fluid within the second cavity independently of the volume of fluid within the cavity.

8. The user interface enhancement system of claim **1**, wherein the surface defined by the sheet is substantially continuous and planar.

9. The user interface enhancement system of claim **8**, wherein the sheet defines a surface with a first portion on a first plane and a second portion on a second plane.

10. The user interface enhancement system of claim **1**, wherein the displacement device influences the volume of fluid within the fluid vessel to expand at least a portion of the fluid vessel to outwardly deform the particular region of the surface and retracts an expanded fluid vessel to substantially return the particular region to the plane of the surface.

11. The user interface enhancement system of claim **1**, wherein the sheet and the fluid are substantially transparent.

12. The user interface enhancement system of claim **1**, wherein the fluid is of a refractive index that is substantially identical to that of at least a portion of the sheet.

13. The user interface enhancement system of claim **1**, further comprising a data-link that connects the displacement device and the touch interface device and allows communication between the displacement device and the touch interface device, and wherein the displacement device is actuated by the touch interface device.

14. The user interface enhancement system of claim **13**, wherein the data-link includes a wireless transmitter and receiver.

15. The user interface enhancement system of claim **1**, wherein the displacement device is electrically powered.

16. The user interface enhancement system of claim **15**, wherein the displacement device includes a reservoir that contains a volume of fluid and is fluidly coupled to the fluid vessel and wherein fluid is displaced between the reservoir and the fluid vessel.

17. The user interface enhancement system of claim **16**, wherein the displacement device includes a fluid pump that displaces fluid between the reservoir and the fluid vessel.

18. The user interface enhancement system of claim **15**, wherein the displacement device expands the volume of fluid to expand the fluid vessel.

19. The user interface enhancement system of claim **18**, wherein the displacement device is a heater.

20. The user interface enhancement system of claim **15**, further comprising a power source that powers the displacement device.

21. The user interface enhancement system of claim **1**, wherein the displacement device is manually powered.