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(71) Applicant: **ULTRAHAPTICS IP LTD** [GB/GB]; The West Wing, One Glass Wharf, Bristol Bristol BS2 0EL (GB).

(72) Inventors: **WREN, William**; Ultrahaptics IP Limited, The West Wing, One Glass Wharf, Bristol Bristol BS2 0EL (GB). **KAPPUS, Brian**; Ultrahaptics IP Limited, The West Wing, One Glass Wharf, Bristol Bristol BS2 0EL (GB). **LONG, Benjamin John Oliver**; Ultrahaptics IP Limited, The West Wing, One Glass Wharf, Bristol Bristol BS2 0EL (GB). **DEELY, Simon**; Ultrahaptics IP Limited, The West Wing, One Glass Wharf, Bristol Bristol BS2 0EL (GB).

(74) Agent: **WITHERS & ROGERS LLP**; 4 More London, Riverside, London Greater London SE1 2AU (GB).

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(54) Title: HUMAN INTERACTIONS WITH MID-AIR HAPTIC SYSTEMS

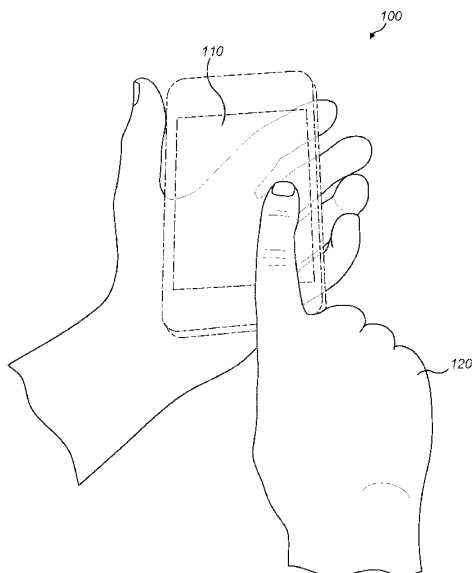


FIG. 1

(57) Abstract: Strategies for managing an "always on" solution for volumes with enhanced interactive haptic feedback and its implications are addressed. Ultrasound transducer arrays may be mounted on a person (such as on a head mounted display or other wearable accessory). This array may utilize some form of 6 degree-of-freedom tracking for both the body and hands of the user. The arrays coordinate to project focused acoustic pressure at specific locations on moving hands such that a touch sensation is simulated. Using wearable microphones, the ultrasonic signal reflected and transmitted into the body can be used for hand and gesture tracking.

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