

**Oral Presentation On E**  
**Gesture Technology Par**  
**Patent Owner**  
**(September 13, 202**

***Apple, Inc., et al. v. Gesture Techno***  
**IPR2021-00922**

## Petitioner's Unpatentability Grounds.

### **Proposed Ground of Unpatentability**

**Ground 1:** Claims 1, 2, 4-14, 17, 19, 21-22, 24-28 are obvious under pre-AIA 35 U.S.C. § 103 over U.S. Patent No. 6,144,366 (“*Numazaki*”) in view of the knowledge of a person having ordinary skill in the art at the time of the invention.

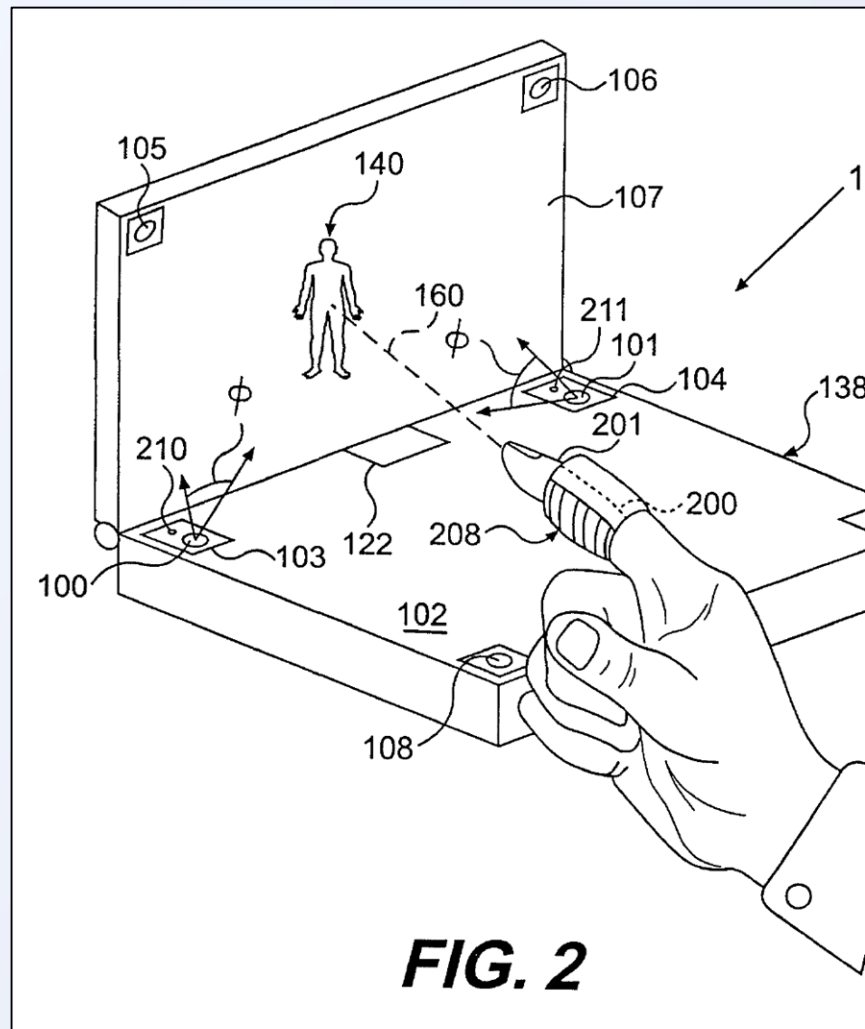
**Ground 2:** Claims 3, 15, and 23 are obvious under pre-AIA 35 U.S.C. § 103 over *Numazaki* in view of U.S. Patent No. 6,064,350 (“*Numazaki* ’863”)

**Ground 3:** Claims 16 and 29 are obvious under pre-AIA 35 U.S.C. § 103 over *Numazaki* in view of U.S. Patent No. 6,008,018 (“*DeLeon*”).

**Ground 4:** Claim 18 is obvious under pre-AIA 35 U.S.C. § 103 over *Numazaki* in view of U.S. Patent No. 6,191,773 (“*Marr*”).

**Ground 5:** Claim 20 is obvious under pre-AIA 35 U.S.C. § 103 over *Numazaki* in view of U.S. Patent No. 6,064,350 (“*Numazaki* ’863”).

## '079 Patent: "More Useful Man Machine Interface"





## Challenged Claims

1. A computer implemented method comprising:  
providing a light source adapted to direct illumination  
through a work volume above the light source;  
providing a camera oriented to observe a gesture performed in the work volume, the camera being fixed relative to the light source; and  
determining, using the camera, the gesture performed in the work volume and illuminated by the light source.

2. The method of claim 1, the light source includes a laser.

3. The method of claim 1, the light source includes a light emitting diode.

4. The method of claim 1, the gesture includes a hand gesture.

5. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

6. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

7. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

8. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

9. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

10. The method of claim 1, the gesture includes a hand gesture, and a gesture sensor is provided to detect the gesture.

## Challenged Claims

**11.** A computer apparatus comprising:  
a light source adapted to illuminate a human body part within a work volume generally above the light source;  
a camera in fixed relation relative to the light source and oriented to observe a gesture performed by the human body part in the work volume; and  
a processor adapted to determine the gesture performed in the work volume and illuminated by the light source based on the camera output.

**12.** The computer apparatus of claim 11, further comprising a display and a keyboard and input device.

**13.** The computer apparatus of claim 11, wherein the display is pivotably mounted to the computer apparatus.

**14.** The computer apparatus of claim 11, wherein the light source includes a light emitting diode.

**15.** The computer apparatus of claim 11, wherein the light source includes a laser diode.

**16.** The computer apparatus of claim 11, wherein the display includes a touch screen.

**17.** The computer apparatus of claim 11, wherein the target is a virtual target that is viewable on the display.

**18.** The computer apparatus of claim 11, wherein the gesture is a hand gesture.

**19.** The computer apparatus of claim 11, wherein the gesture is a head gesture.

**20.** The computer apparatus of claim 11, wherein the gesture is a foot gesture.

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