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(54) **LOCALLY VIBRATING HAPTIC APPARATUS,  
METHOD FOR LOCALLY VIBRATING  
HAPTIC APPARATUS, HAPTIC DISPLAY  
APPARATUS AND VIBRATING PANEL USING  
THE SAME**

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(75) Inventor: **Kapjin LEE, Seoul (KR)**

(57) **ABSTRACT**

(73) Assignees: **Gwangju Institute of Science and  
Technology, Gwangju (KR); LG  
Innotek Co., Ltd., Seoul (KR)**

Disclosed is a locally vibrating haptic apparatus capable of vibrating a desired position of the haptic apparatus or adjusting a vibrating position by improving arrangement of vibrators and a frequency control method, the haptic apparatus including a panel and a vibrator transmitting vibration to the panel, wherein a vibration frequency outputted from the vibrator is adjusted in a domain less than a primary resonant frequency of the panel, thus controlling a vibrating position from a portion having the vibrator to a central portion of the panel, the haptic apparatus being advantageous in that the vibrating position of the panel may be precisely controlled by adjusting the frequency of the vibrator disposed on the edge of the haptic panel.

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