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(54) **MOBILE TERMINAL DEVICE HAVING CAMERA SYSTEM**

**Publication Classification**

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348/360**

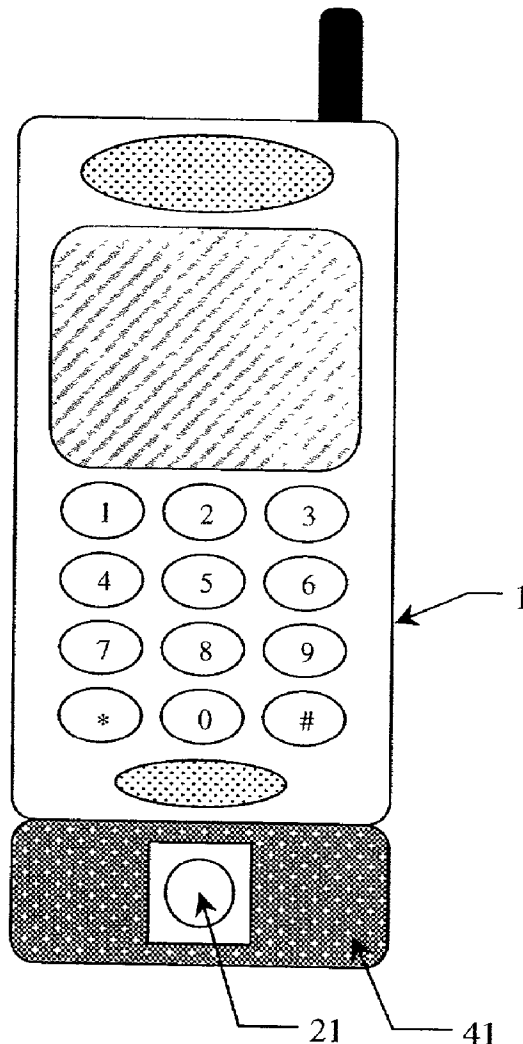
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(57) **ABSTRACT**

The present invention is a camera system which is usable with a mobile terminal. The camera system includes a lens module and at least one mechanism for changing optical properties by interacting with the lens module. The camera system may be built into the mobile terminal or attached thereto as an external module.

(21) Appl. No.: **09/987,849**

(22) Filed: **Nov. 16, 2001**



**Samsung v. GUI  
IPR2021-00337  
Exhibit 1017**

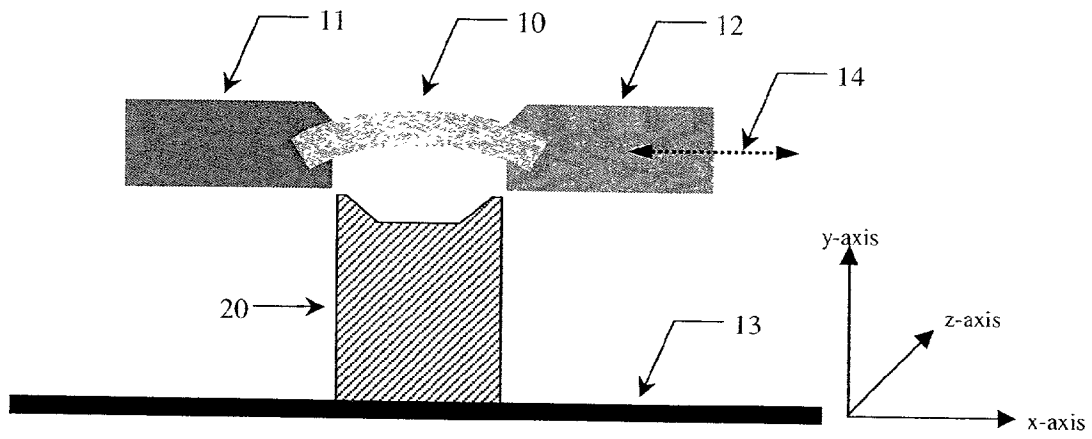


Fig. 1

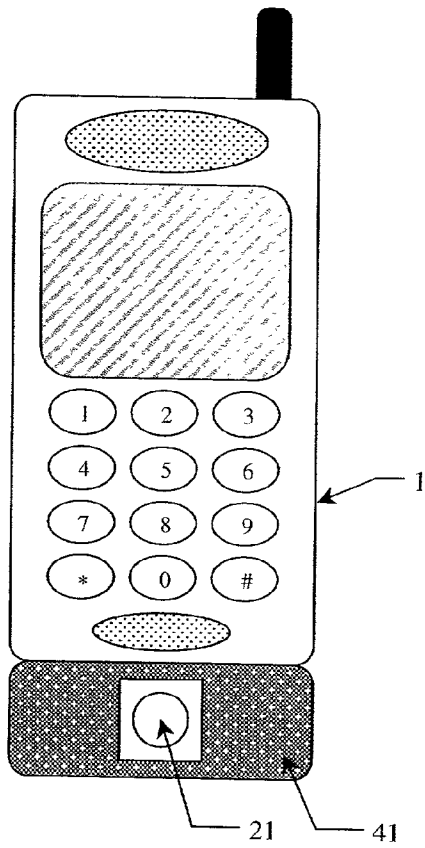


Fig. 2a

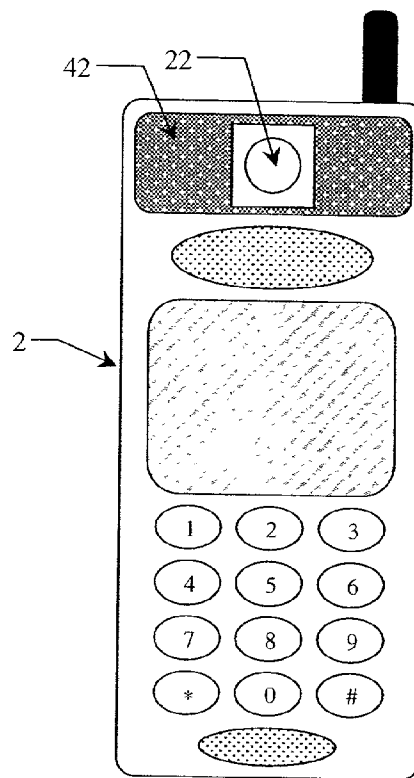


Fig. 2b

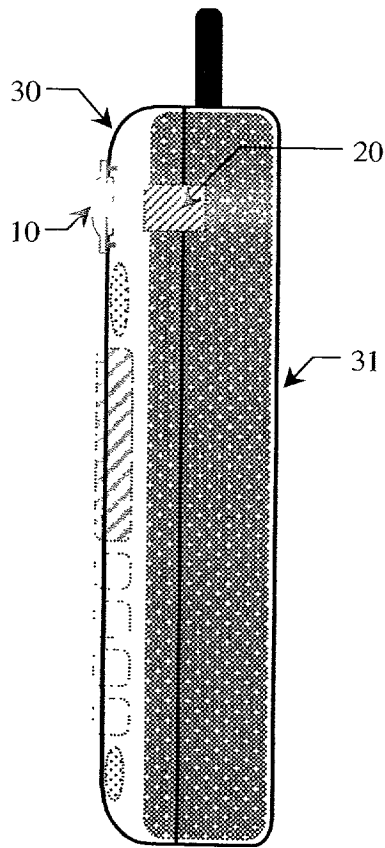


Fig. 2c

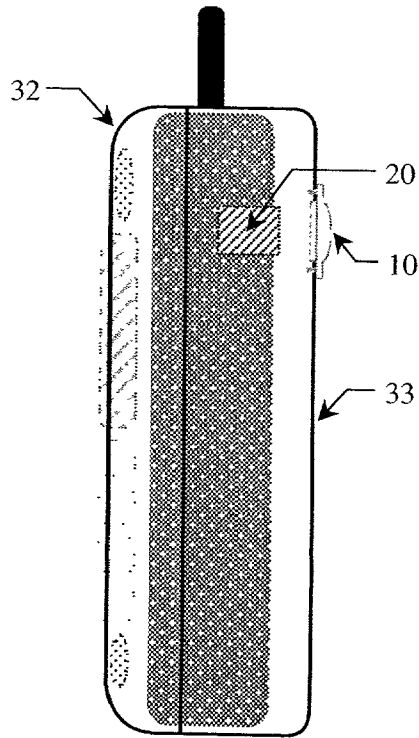


Fig. 2d

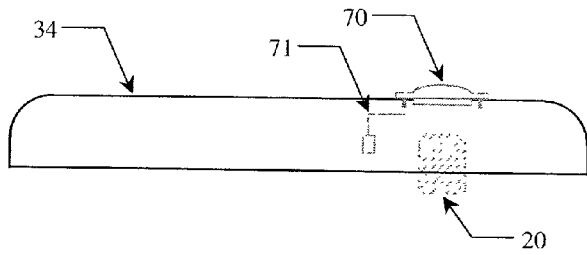


Fig. 3a  
(side view)

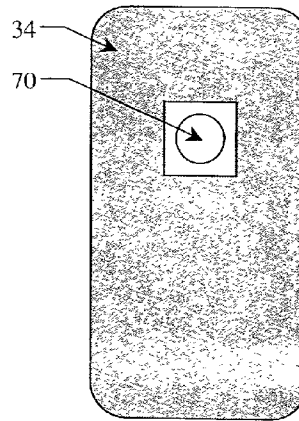


Fig. 3b  
(back view)

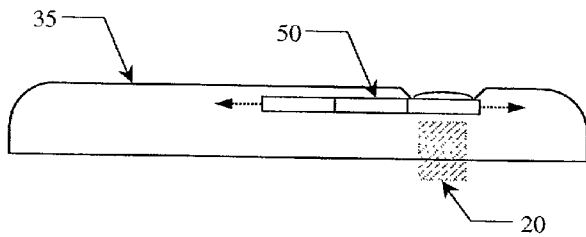


Fig. 4a  
(side view)

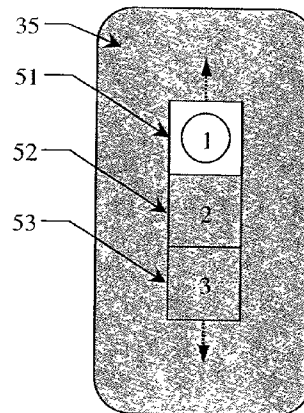


Fig. 4b  
(back view)

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