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MacLean

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[54] METHOD AND APPARATUS TO MONITOR SLEEP BEHAVIOUR

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[52] U.S. Cl. **128/739**

[58] Field of Search 128/739, 774, 782; 600/26, 27; 340/573, 575

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,363,242	1/1968	Currey et al.	128/782
4,617,525	10/1986	Lloyd	128/716
4,836,219	6/1989	Hobson et al.	128/782

FOREIGN PATENT DOCUMENTS

1503745	8/1989	U.S.S.R.	128/739
1553055	3/1990	U.S.S.R.	128/739

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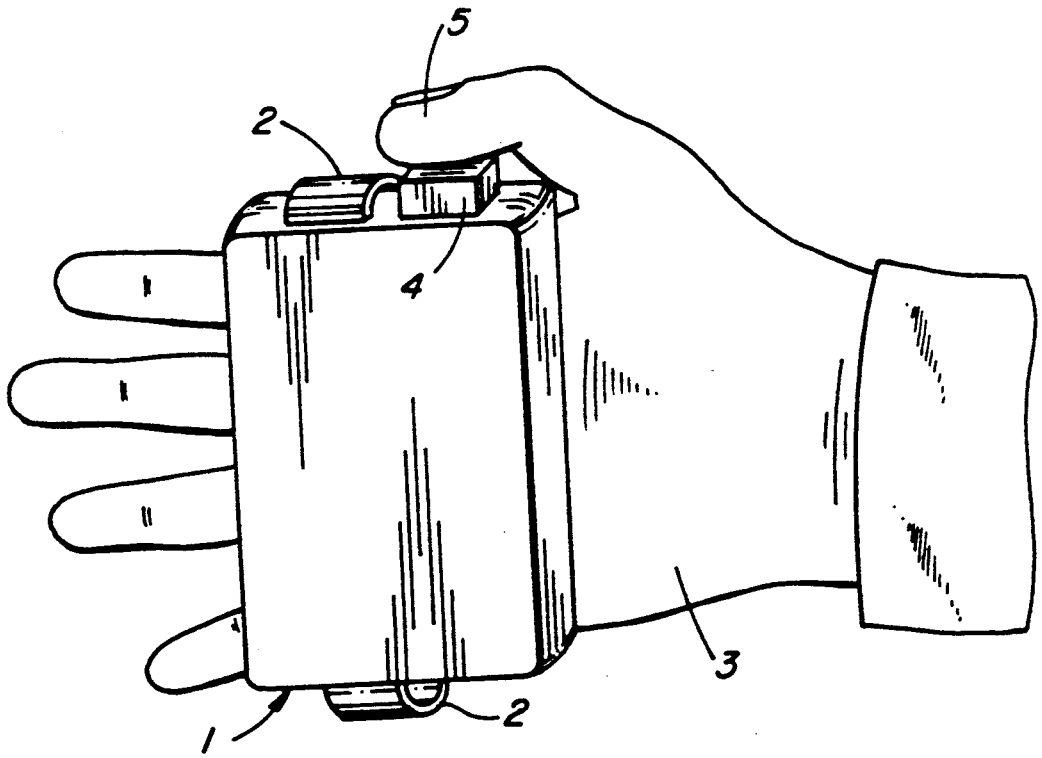
[57] **ABSTRACT**

A vibrating stimulus-response device and method to monitor sleep behaviour is described. The self-contained portable device can be used in a home environment as a preliminary screen before a more extensive polysomnographic examination.

12 Claims, 2 Drawing Sheets