United States Patent [19]

Ohnishi et al.

[11] **3,806,893**

[45] **Apr. 23, 1974**

[54] **METHOD OF ELECTRICALLY DETECTING COLLOIDAL MEMORY**

[75] Inventors: **Joichi Ohnishi; Isao Ota,** both of Osaka, Japan

[73] Assignee: **Matsushita Electric Industrial Co., Ltd.,** Kadoma, Osaka, Japan

[22] Filed: **July 27, 1972**

[21] Appl. No.: **275,743**

[30] **Foreign Application Priority Data**

July 29, 1971 Japan 46-57368

[52] **U.S. Cl.**.... **340/173 CH,** 324/71 R, 340/173 PP

[51] **Int. Cl.**..... **G11c 13/02**

[58] **Field of Search**..... 324/71 R; 340/173 CH, 340/173 PP

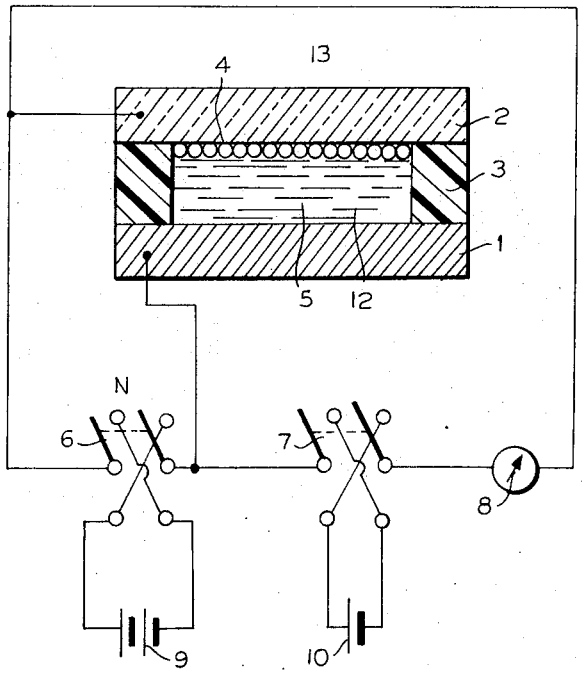
[56] **References Cited**

UNITED STATES PATENTS

3,060,317	10/1962	Winogradoff	340/173 CH
3,158,798	11/1964	Sauder	340/173 CH
3,691,533	9/1972	Bogenberger	340/173 CH
3,499,167	3/1970	Baker	340/173 CH
3,668,106	6/1972	Ota	204/299
3,511,651	5/1970	Rosenberg	96/1.5

Primary Examiner—Vincent P. Canney
Assistant Examiner—Stuart N. Hecker
Attorney, Agent, or Firm—Wenderoth, Lind & Ponack

[57] **ABSTRACT**

A method of detecting the existance of a colloidal memory state which comprises detecting rectifying characteristics in an electrophoretic suspension layer interposed between a pair of electrodes, said electrophoretic suspension layer consisting of at least one electrophoretic material in a finely divided powder form suspended in a liquid.

8 Claims, 4 Drawing Figures