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[54] **MICROENCAPSULATED ELECTROPHORETIC DISPLAY**

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[58] **Field of Search** 204/450, 606; 359/290, 296

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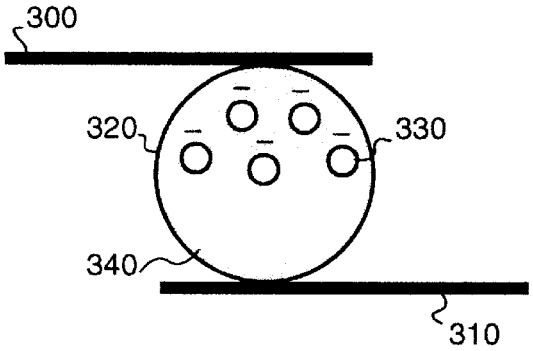
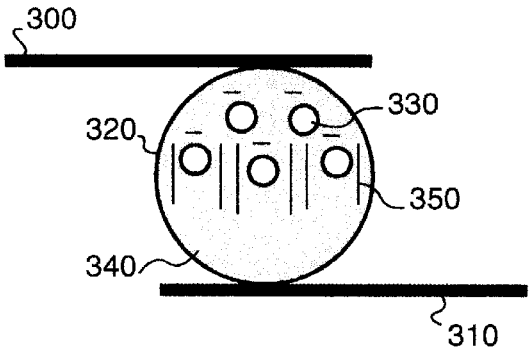
[57] **ABSTRACT**

An application-ready electrophoresis material includes a carrier and a dispersion of microcapsules therein, the microcapsules each containing a plurality of phases therein. At least some of the phases contrast visually and and exhibit differential responsiveness to an electric field, such that application of the field determines the visual appearance of the microcapsules. The material exhibits stability such the visual appearance persists despite removal of the field. In one aspect, the invention provides for enhanced stability of the visual appearance. In another aspect, the reflectivity of at least one of the phases is enhanced. In another aspect, one of the phases is particulate in nature and emits visible radiation.

45 Claims, 8 Drawing Sheets