US005279773A

United States Patent [19]

Saxe

[11] Patent Number: 5,279,773

[45] Date of Patent: Jan. 18, 1994

[54] LIGHT VALVE INCORPORATING A SUSPENSION STABILIZED WITH A BLOCK POLYMER

[75] Inventor: Robert L. Saxe, New York, N.Y.

[73] Assignee: Research Frontiers Incorporated, Woodbury, N.Y.

[21] Appl. No.: 855,266

[22] Filed: Mar. 23, 1992

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 680,603, Apr. 1, 1991, abandoned, which is a continuation of Ser. No. 216,392, Jul. 7, 1988, abandoned, which is a continuation-in-part of Ser. No. 37,626, Apr. 13, 1987, abandoned, which is a continuation-in-part of Ser. No. 938,396, Dec. 5, 1986, abandoned.

[51] Int. Cl.[5] F21V 9/14; G02B 5/30

[52] U.S. Cl. 252/585; 252/582; 359/296

[58] Field of Search 252/582, 585; 359/296

[56] References Cited

U.S. PATENT DOCUMENTS

4,164,365	8/1979	Saxe	359/296
4,247,175	1/1981	Saxe	252/585
4,273,422	6/1981	Saxe	350/362
4,285,801	8/1981	Chiang	350/362
4,407,565	10/1983	Saxe	252/585
4,442,019	4/1984	Marks	350/362
4,772,103	9/1988	Saxe	252/585

Primary Examiner—Philip Tucker
Attorney, Agent, or Firm—Rosenman & Colin

[57] ABSTRACT

A light valve comprises a suspension of particles in a liquid suspending medium that also contains an A-B type block polymer.

24 Claims, No Drawings