

- [54] **PLASTIC OPTICAL MEMBER AND LIGHT-QUANTITY-CONTROLLING MEMBER EACH HAVING A LIGHT-DIFFUSING LAYER ON ITS SURFACE**
- [75] Inventors: **Genji Ohtake, Yokohama; Hisao Morohashi, Kawasaki; Souichi Hasegawa, Yokohama, all of Japan**
- [73] Assignee: **Ohno Research & Development Laboratories Co. Ltd., Yokohama, Japan**

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- [52] U.S. Cl. .... **359/707; 359/599; 362/33**
- [58] Field of Search ..... **359/599, 707, 893, 894, 359/619; 362/26, 31, 33**

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*Primary Examiner*—Scott J. Sugarman  
*Assistant Examiner*—Thong Nguyen  
*Attorney, Agent, or Firm*—Ladas & Parry

## [57] ABSTRACT

There is provided a plastics optical member having on its surface a light-diffusing layer composed of a layer of micro-joints formed by immersing a plastics material successively in a good solvent and a poor solvent, and a plastics light-quantity-controlling member having on its surface a white pattern composed of the micro-joints. The superiority in light diffuse reflection, transmission and light-quantity-controlling property permit their incorporation into various optical systems such as screens for projection, various displays, light-source-directly-under-an-illumination-surface type light boxes, edge light type light boxes, etc.

**8 Claims, 6 Drawing Sheets**

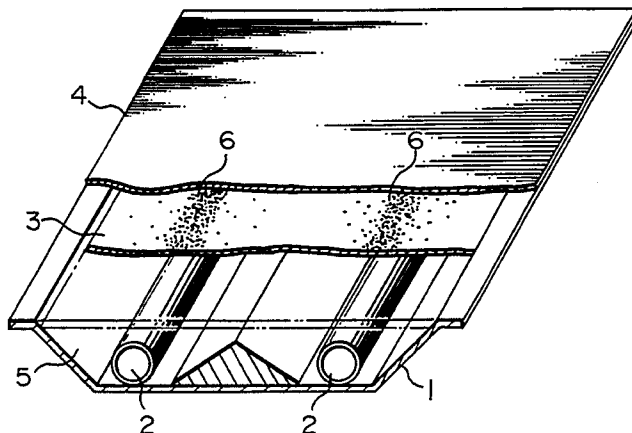


FIG. 1

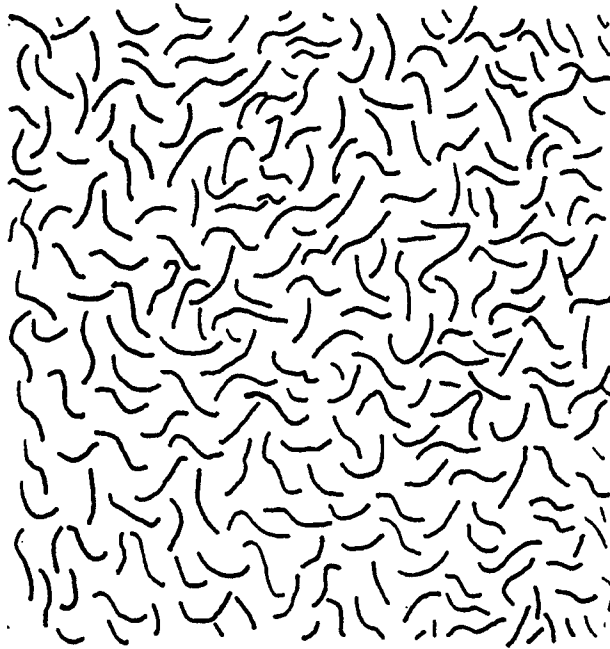


FIG. 2

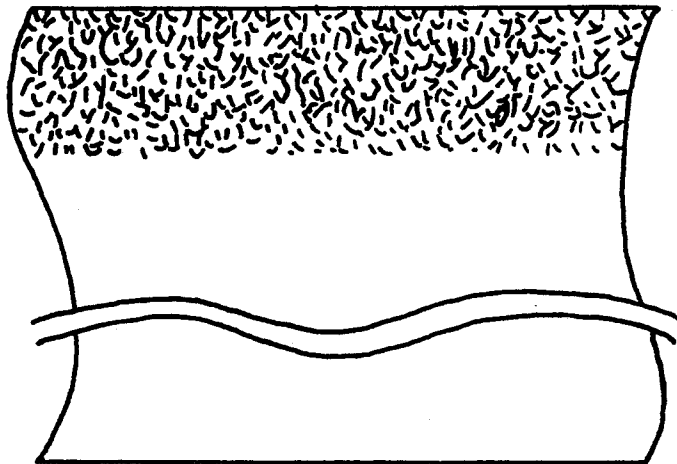


FIG. 3



FIG. 4

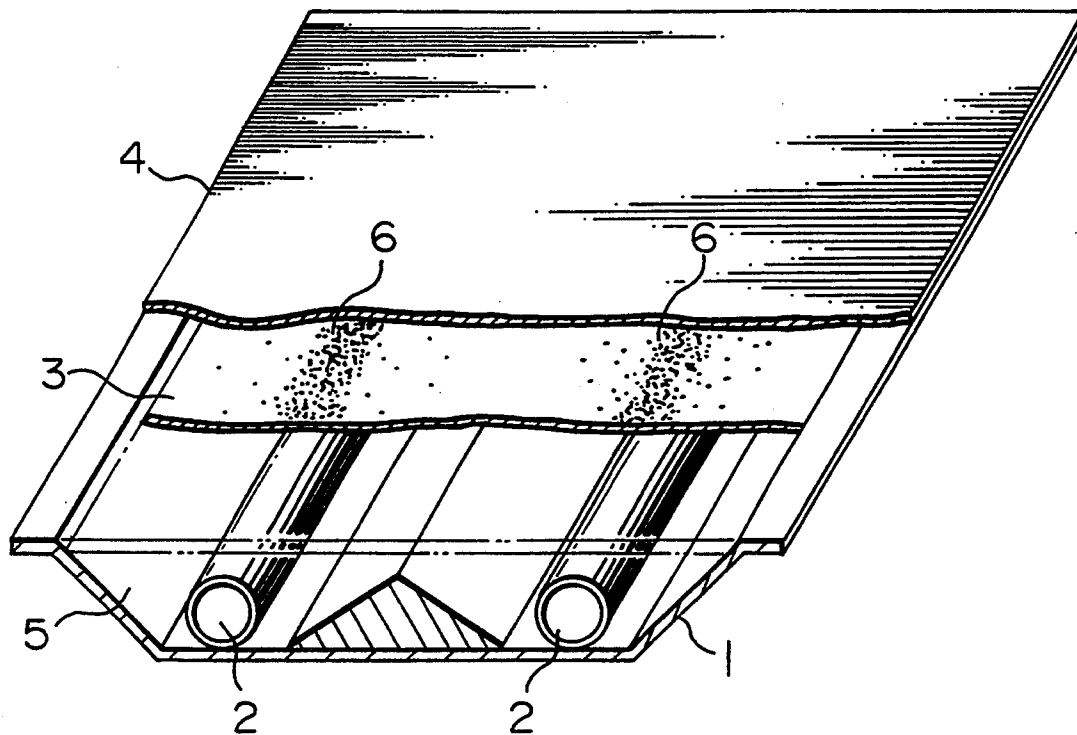


FIG. 5

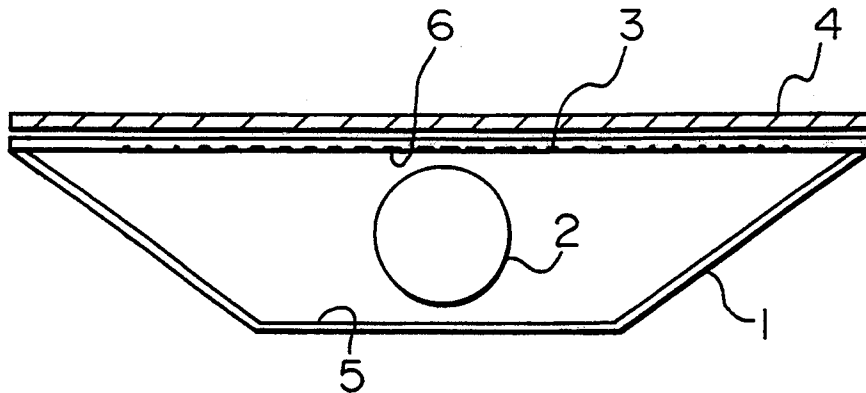


FIG. 6

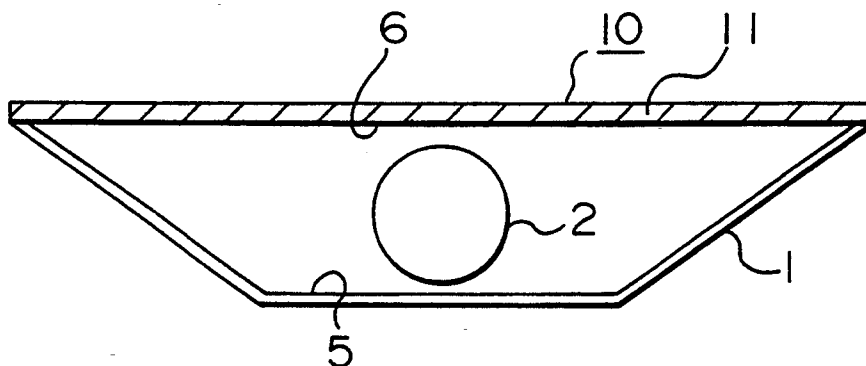
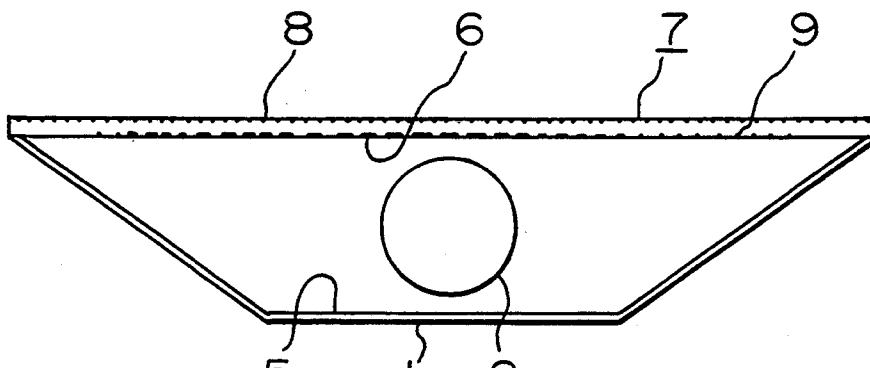


FIG. 7



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