US005552679A

United States Patent [19]

Murasko

[11] **Patent Number: 5,552,679**

[45] **Date of Patent: Sep. 3, 1996**

[54] **ELECTROLUMINESCENT AND LIGHT REFLECTIVE PANEL**

[75] Inventor: **Matthew M. Murasko**, Manhattan Beach, Calif.

[73] Assignee: **International En-R-Tech Incorporated**, British Columbia, Canada

[21] Appl. No.: **425,335**

[22] Filed: **Apr. 18, 1995**

Related U.S. Application Data

[63] Continuation of Ser. No. 92,013, Jul. 15, 1993, abandoned.

[51] **Int. Cl.**[6] **G09G 3/10**

[52] **U.S. Cl.** **315/169.3**; 313/506; 359/528

[58] **Field of Search** ..... 315/169.3, 209 R; 313/463, 473, 506, 509, 511; 359/528

[56] **References Cited**

U.S. PATENT DOCUMENTS

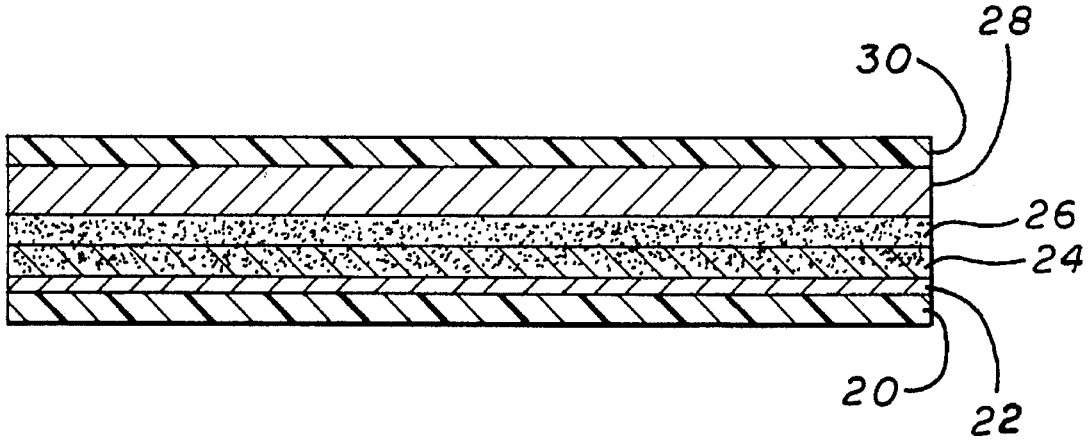
D. 310,434	9/1990	Breece .	
D. 326,924	6/1992	Carroll .	
3,317,722	5/1967	Whitney .	
3,648,235	3/1972	Cahill .	
3,793,517	2/1974	Carlini .	
4,020,389	4/1977	Dickson et al. .	
4,195,328	3/1980	Harris, Jr. .	
4,234,907	11/1980	Daniel .	
4,266,164	5/1981	Schroeder	315/169.1
4,319,308	3/1982	Ippoliti .	
4,480,293	10/1984	Wells .	
4,570,206	2/1986	Deutsch .	
4,652,981	3/1987	Glynn .	
4,667,274	5/1987	Daniel .	
4,709,307	11/1987	Branom .	
4,748,375	5/1988	Lindmayer .	
4,862,331	8/1989	Hanabusa .	
4,875,144	10/1989	Wainwright .	
4,877,995	10/1989	Thioulouse et al. .	
4,901,211	2/1990	Shen .	
4,945,458	7/1990	Batts et al. .	
4,956,752	9/1990	Foglietti .	
4,999,936	3/1991	Calamia et al. .	
5,019,438	5/1991	Rapisarda .	
5,040,099	8/1991	Harris .	
5,067,063	11/1991	Granneman et al. .	
5,111,366	5/1992	Rife et al. .	
5,122,939	6/1992	Kazdan et al. .	
5,138,539	8/1992	Honda et al. .	
5,151,678	9/1992	Veltri et al. .	

FOREIGN PATENT DOCUMENTS

2025124	1/1980	United Kingdom	313/473

Primary Examiner—Robert Pascal
Assistant Examiner—Darius Gambino
Attorney, Agent, or Firm—Fulwider Patton Lee & Utecht

[57] **ABSTRACT**

An illumination system with a panel that is capable of producing electroluminescence as well as reflecting incident light independent of the electroluminescence function of the panel. A layer of phosphor is excited by a power source, and a reflective layer disposed on top of the phosphor layer reflects incident light from an outside light source. The reflective layer is transparent and does not interfere with the electroluminescence of the panel.

7 Claims, 1 Drawing Sheet