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United States Patent [19]

Nestegard et al.

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[54] **STRIPED SURFACE PATTERN FOR RETROREFLECTIVE SHEETING**

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[73] Assignee: **Minnesota Mining and Manufacturing Company**, St. Paul, Minn.

[**] Term: **14 Years**

[21] Appl. No.: **49,168**

[22] Filed: **Jan. 19, 1996**

[51] **LOC (6) Cl.** **05-06**

[52] **U.S. Cl.** **D5/99**; D5/7; D5/60

[58] **Field of Search** D5/4, 47, 52–53, D5/58–61, 99; D6/582–3; D9/456; D25/138, 143–4, 157, 160–1, 164, 113, 121; 206/484.2, 819; 264/284; 359/529, 530.3; 405/19; 428/116, 118, 178, 180, 30, 72

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 130,864	12/1941	Abt	D5/47
D. 168,422	12/1952	Rose	D5/60
D. 363,611	10/1995	Nakamura	D5/60
D. 366,763	2/1996	Sargent et al.	D5/60
3,190,178	6/1965	McKenzie	88/82
3,450,459	6/1969	Haggerty	350/103
3,632,695	1/1972	Howell	264/1
3,684,348	8/1972	Rowland	350/103
3,689,346	9/1972	Rowland	156/245
3,700,305	10/1972	Bingham	305/105
3,712,706	1/1973	Stamm	350/103
3,810,804	5/1974	Rowland	156/245
3,811,983	5/1974	Rowland	156/245
3,830,682	8/1974	Rowland	161/2
3,924,929	12/1975	Holmen et al.	350/103
3,926,402	12/1975	Heenan et al.	249/117

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

0 175 031 A1	3/1986	European Pat. Off. .
0 200 521	11/1986	European Pat. Off. .
0 382 420 A2	8/1990	European Pat. Off. .
0 478 178 A1	4/1992	European Pat. Off. .
23 17 871.4	10/1974	Germany .
2 245 219 A	1/1992	United Kingdom .
WO 92/04647	3/1992	WIPO .
WO 94/19711	9/1994	WIPO .
WO 95/03558	2/1995	WIPO .
WO 95/07179	3/1995	WIPO .
WO 95/11466	4/1995	WIPO .

OTHER PUBLICATIONS

Japanese Design Patent Application No. 50–29534, filed Jul. 15, 1975, Applicant Myodo Kinzoku K.K. (including English translation thereof).

A sample labeled "S1" of retroreflective sheeting believed to be offered for sale by Reflexite Corp. before Jan. 19, 1995.

A sample labeled "S2" of retroreflective sheeting believed to be offered for sale by Stimsonite Corp. before Jan. 19, 1995.

A sample labeled "S3" of retroreflective sheeting believed to be offered for sale by Stimsonite Corp. before Jan. 19, 1995.

A sample labeled "S4" of retroreflective sheeting believed to be offered for sale by 3M Company before Jan. 19, 1995.

Yoder, P.R. Jr., "Study of Light Deviation Errors in Triple Mirrors and Tetrahedral Prisms," *J. Optical Soc. of America*, vol. 48, No. 7, Jul. 1959, pp. 496–499.

(List continued on next page.)

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[57] **CLAIM**

The ornamental design for a striped surface pattern for retroreflective sheeting, as shown and described.

DESCRIPTION

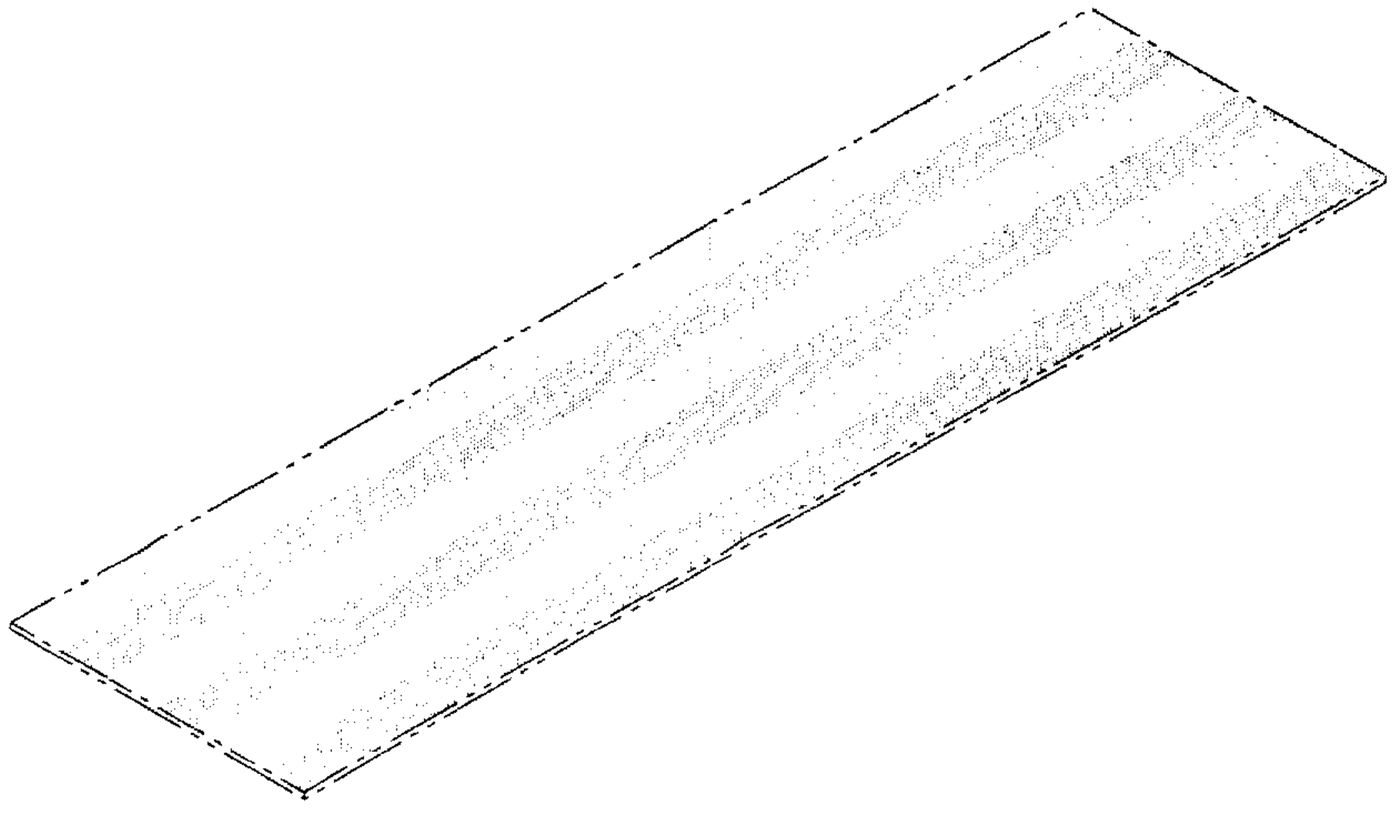
FIG. **1** is a perspective view of a striped surface pattern for retroreflective sheeting, showing our new design;

FIG. **2** is a top plan view thereof; and,

FIG. **3** is an enlarged fragmentary top plan view thereof.

The broken lines in the drawings depict the boundaries of the retroreflective sheeting and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



U.S. PATENT DOCUMENTS

3,935,359	1/1976	Rowland	428/172
3,992,080	11/1976	Rowland	350/103
4,025,159	5/1977	McGrath	350/105
4,066,236	1/1978	Lindner	249/160
4,066,331	1/1978	Lindner	350/103
4,202,600	5/1980	Burke et al.	350/103
4,243,618	1/1981	Van Arnam	264/1
4,332,847	6/1982	Rowland	428/156
4,349,598	9/1982	White	428/161
4,414,316	11/1983	Conley	430/496
4,486,363	12/1984	Pricone et al.	264/1.4
4,555,161	11/1985	Rowland	350/103
4,576,850	3/1986	Martens	428/156
4,582,885	4/1986	Barber	528/28
4,588,258	5/1986	Hoopman	350/103
4,601,861	7/1986	Pricone et al.	264/1.6
4,668,558	5/1987	Barber	428/156
4,775,219	10/1988	Appeldorn et al.	350/103
4,801,193	1/1989	Martin	350/103
4,895,428	1/1990	Nelson et al.	350/103
4,938,563	7/1990	Nelson et al.	350/103
5,035,929	7/1991	Myers et al.	428/30
5,066,098	11/1991	Kult et al.	359/540
5,077,117	12/1991	Harper et al.	428/143
5,117,304	5/1992	Huang et al.	359/529
5,138,488	8/1992	Szczech	359/529
5,175,030	12/1992	Lu et al.	428/30
5,183,597	2/1993	Lu	264/1.4
5,189,553	2/1993	Smith	359/530
5,213,872	5/1993	Pricone et al.	428/195
5,229,882	7/1993	Rowland	359/530
5,236,751	8/1993	Martin et al.	428/40
5,264,063	11/1993	Martin	156/247
5,272,562	12/1993	Coderre	359/529
5,360,659	11/1994	Arends et al.	428/30
5,376,431	12/1994	Rowland	428/164
5,450,235	9/1995	Smith et al.	359/529

OTHER PUBLICATIONS

Priola, A., et al., *Proceedings of the XIII International Conference in Organic Coatings Science and Technology*, Athens, Greece, Jul. 7–11, 1987, pp. 308–18.

Technical Report No. 9077 of Reflexite Retroreflective Sheeting Product.

Finster, Schmidt–Clausen, "Optimum Identification of Trucks for Real Traffic Situations", Report on Research Proj. 1.9103 of the Fed. Hwys. Agency, Apr. 1992.

Leighton, J. et al., "RF Welding of PVC and Other Thermoplastic Compounds," *ANTEC*, 1992, pp. 724–728.

Technical Report No. 9078 of Reflexite Super Bright Brand Reflective Fabric.

Copending application Ser. No. 08/587,719, filed Jan. 19, 1996.

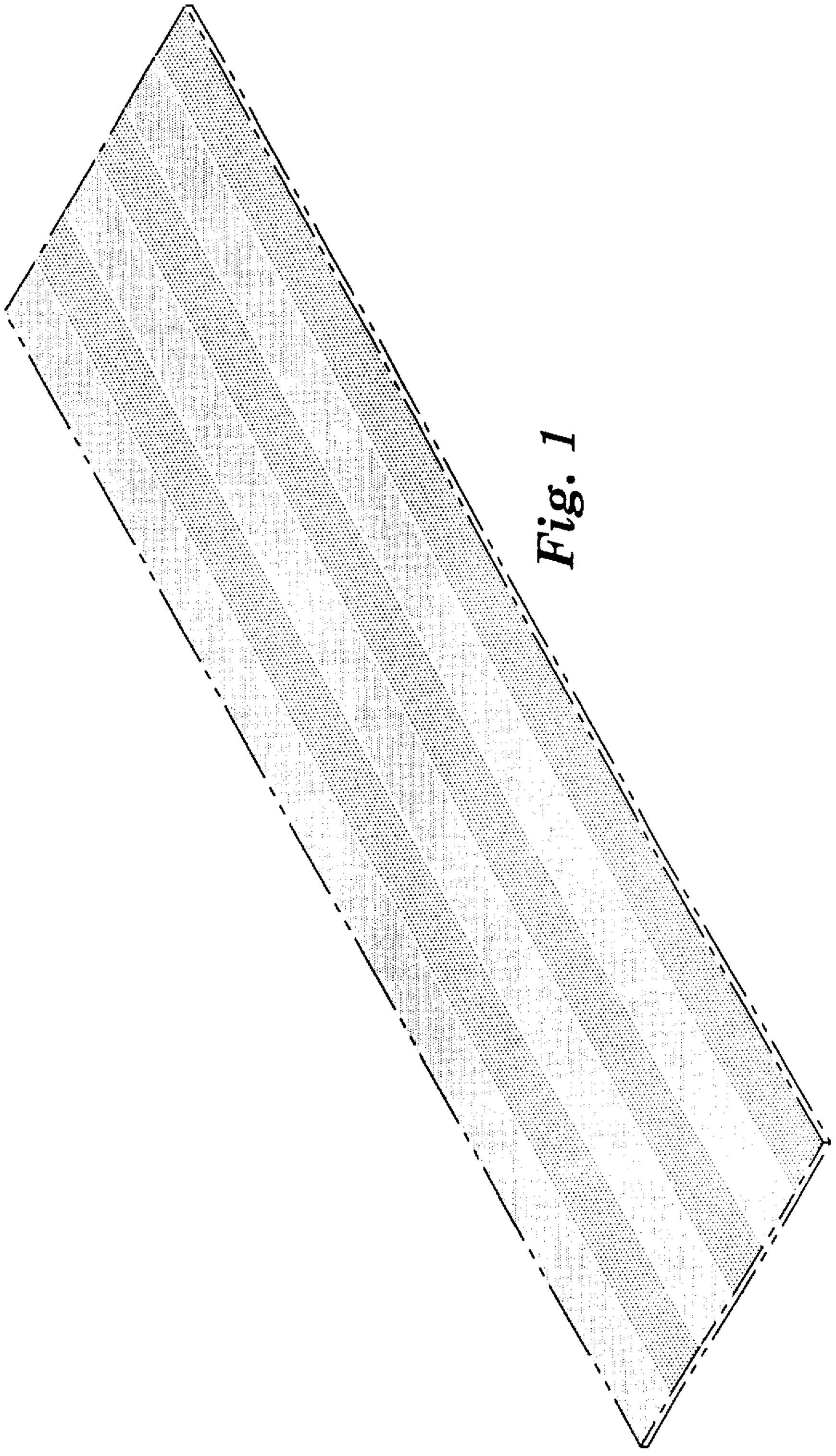


Fig. 1

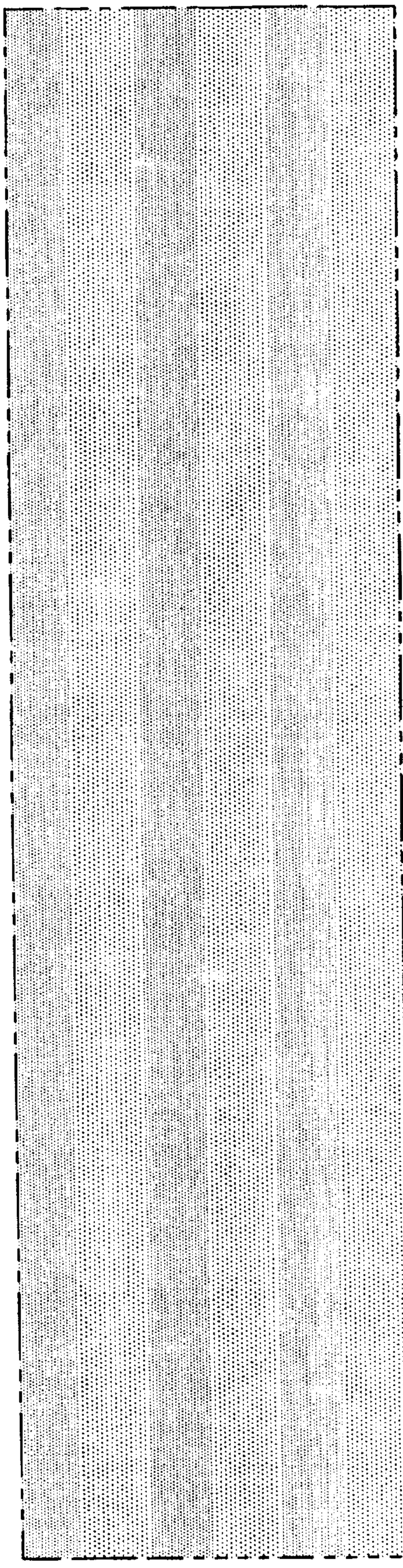


Fig. 2

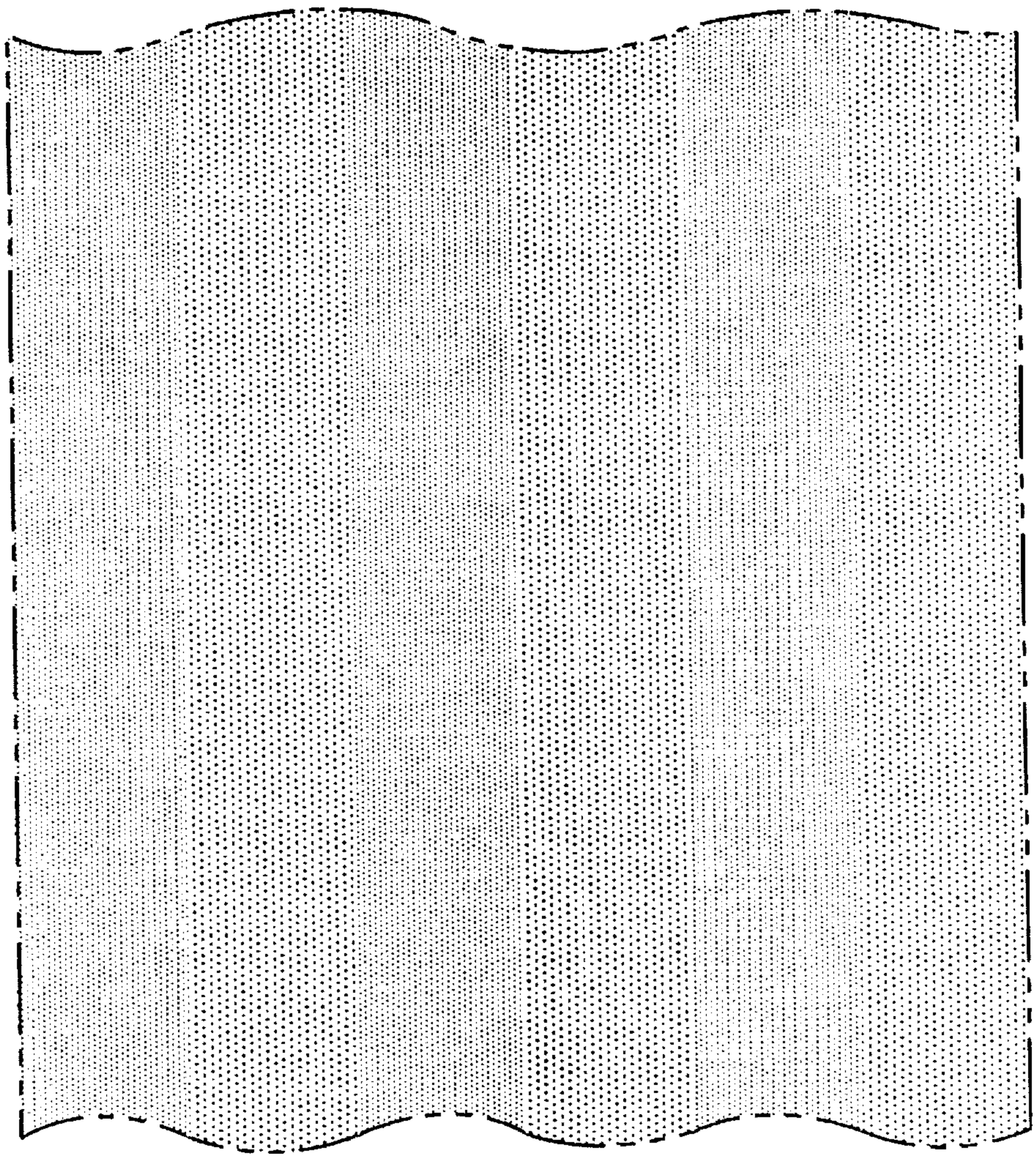


Fig. 3