

US00D501857S

(12) **United States Design Patent**
Ebisawa

(10) **Patent No.:** **US D501,857 S**
(45) **Date of Patent:** **** Feb. 15, 2005**

(54) **ABRASIVE MEMBER**

(75) **Inventor:** **Hajime Ebisawa, Atsugi (JP)**

(73) **Assignee:** **3M Innovative Properties Company,**
St. Paul, MN (US)

(**) **Term:** **14 Years**

(21) **Appl. No.:** **29/192,202**

(22) **Filed:** **Oct. 20, 2003**

(30) **Foreign Application Priority Data**

Apr. 24, 2003 (JP) 2003-011696

(51) **LOC (7) Cl. 15-09**

(52) **U.S. Cl. D15/123**

(58) **Field of Search** D15/123; 451/526-528,
451/532, 548, 491, 538-539, 488, 456,
449; 125/15

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,178,381 A * 10/1939 Trinkle 451/527
- 2,650,158 A * 8/1953 Eastman 451/539
- 2,749,681 A 6/1956 Reidenbach
- 2,838,890 A 6/1958 McIntyre
- 3,021,649 A 2/1962 Robbins
- 3,094,735 A * 6/1963 Hanlon 451/526
- 3,353,308 A 11/1967 Zane
- 3,355,844 A * 12/1967 Abler et al. 451/532
- 3,932,966 A 1/1976 Stern
- 4,964,245 A 10/1990 Braasch
- 5,367,839 A 11/1994 Pearce
- 5,607,346 A * 3/1997 Wilson et al. 451/548
- 5,674,122 A 10/1997 Krech

- 5,810,650 A 9/1998 Jöst
- 5,989,112 A 11/1999 Long et al.
- 6,077,156 A 6/2000 Amin et al.
- 6,159,089 A 12/2000 Amin et al.
- 6,227,959 B1 * 5/2001 Beaudry 451/526
- 6,312,325 B1 11/2001 Van Osenbruggen
- 6,368,199 B1 4/2002 Van Osenbruggen
- 6,524,175 B2 * 2/2003 Beaudry et al. 451/526
- 2003/0003856 A1 1/2003 Swei

FOREIGN PATENT DOCUMENTS

- EP 938950 A3 9/1999
- EP 938950 B1 9/1999
- EP 938950 A2 9/1999
- FR 2659892 A1 3/1990
- GB 2017485 10/1979
- GB 2057483 4/1981

* cited by examiner

Primary Examiner—Antoine D. Davis

(74) *Attorney, Agent, or Firm*—Rick L. Franzen

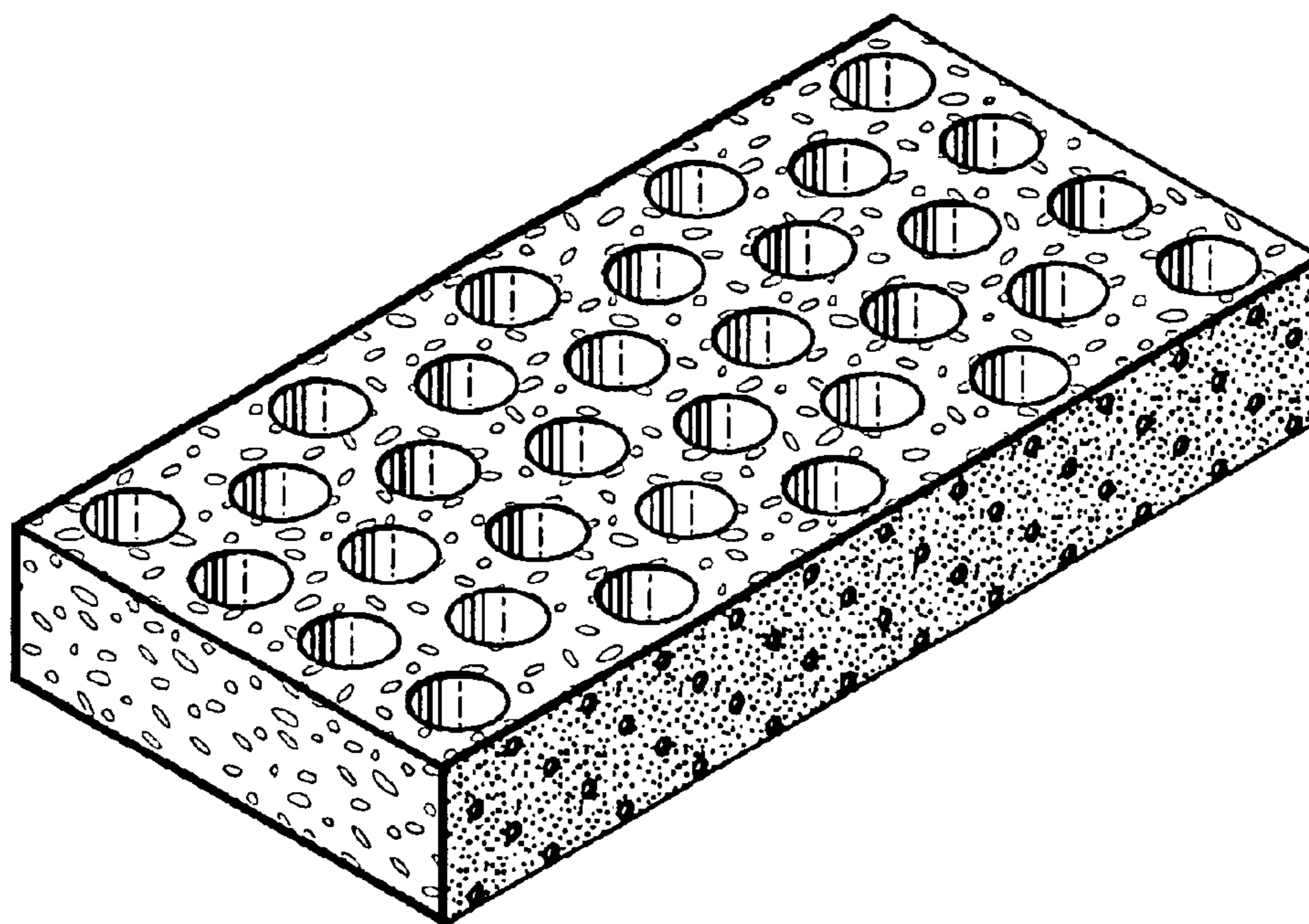
(57) **CLAIM**

The ornamental design for an abrasive member, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an abrasive member showing my new design;
 FIG. 2 is a bottom plan view thereof;
 FIG. 3 is a top plan view thereof;
 FIG. 4 is an end view thereof, the opposite end being identical; and,
 FIG. 5 is a side view thereof, the opposite side being identical.

1 Claim, 2 Drawing Sheets



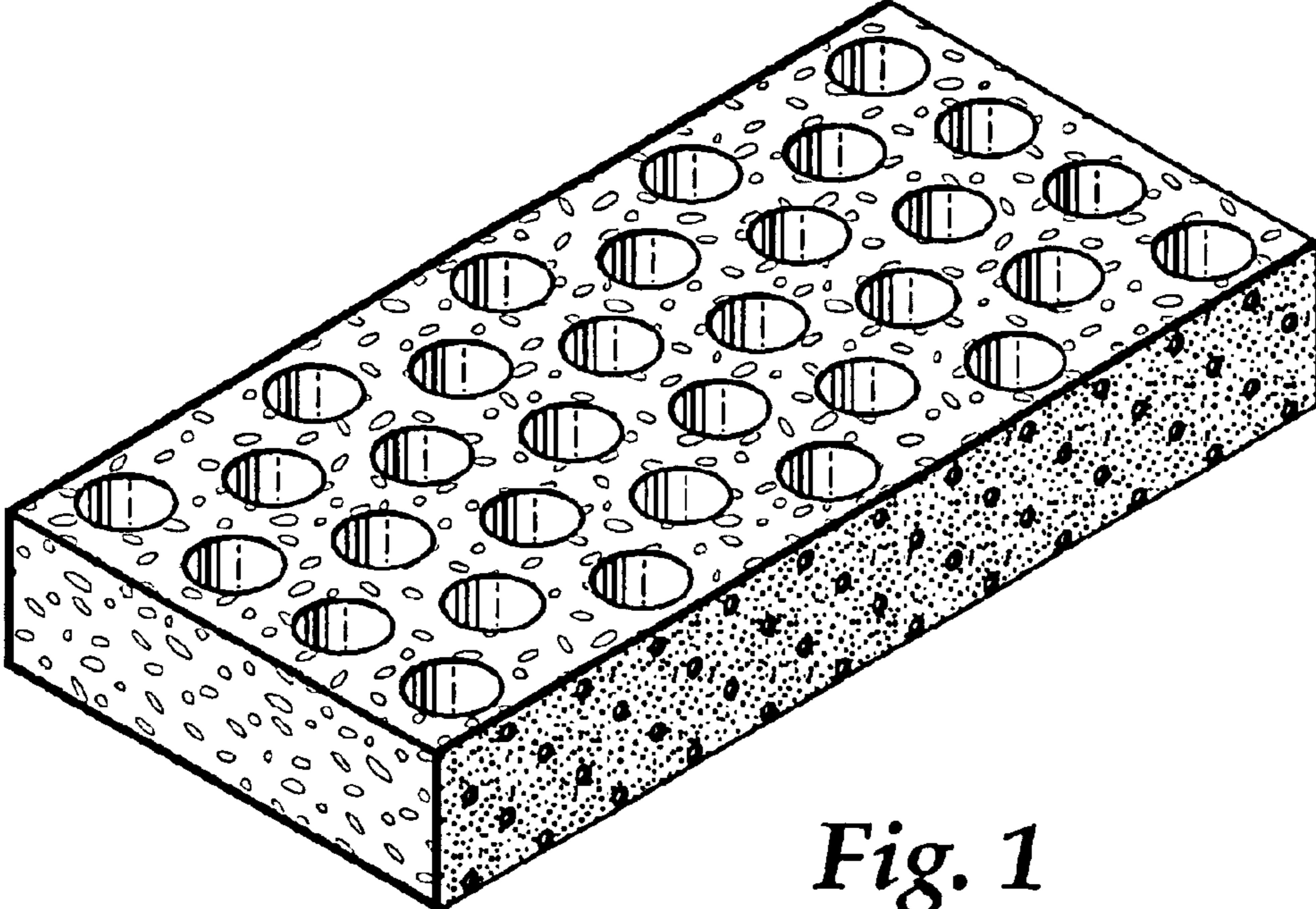


Fig. 1

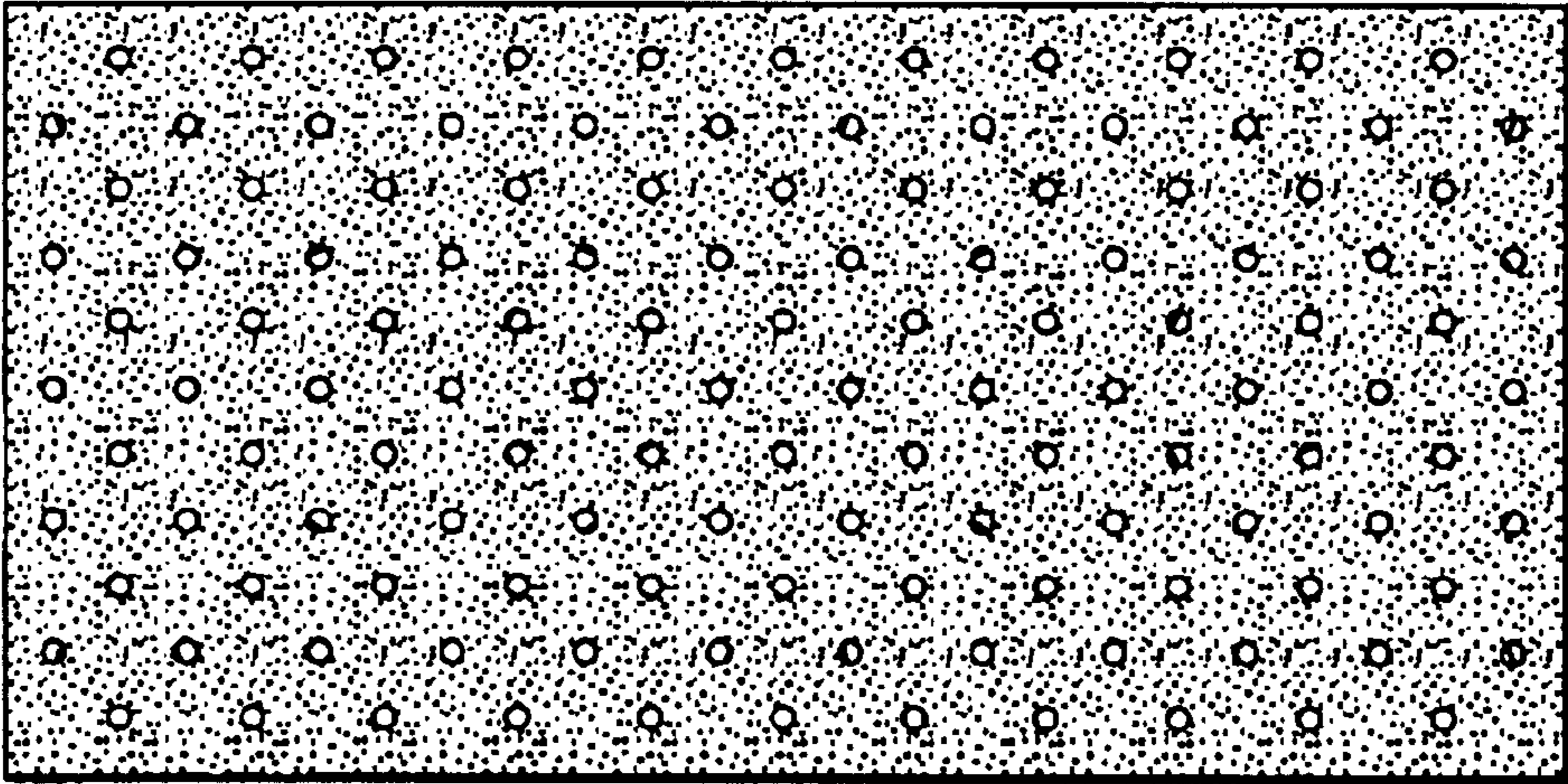


Fig. 2

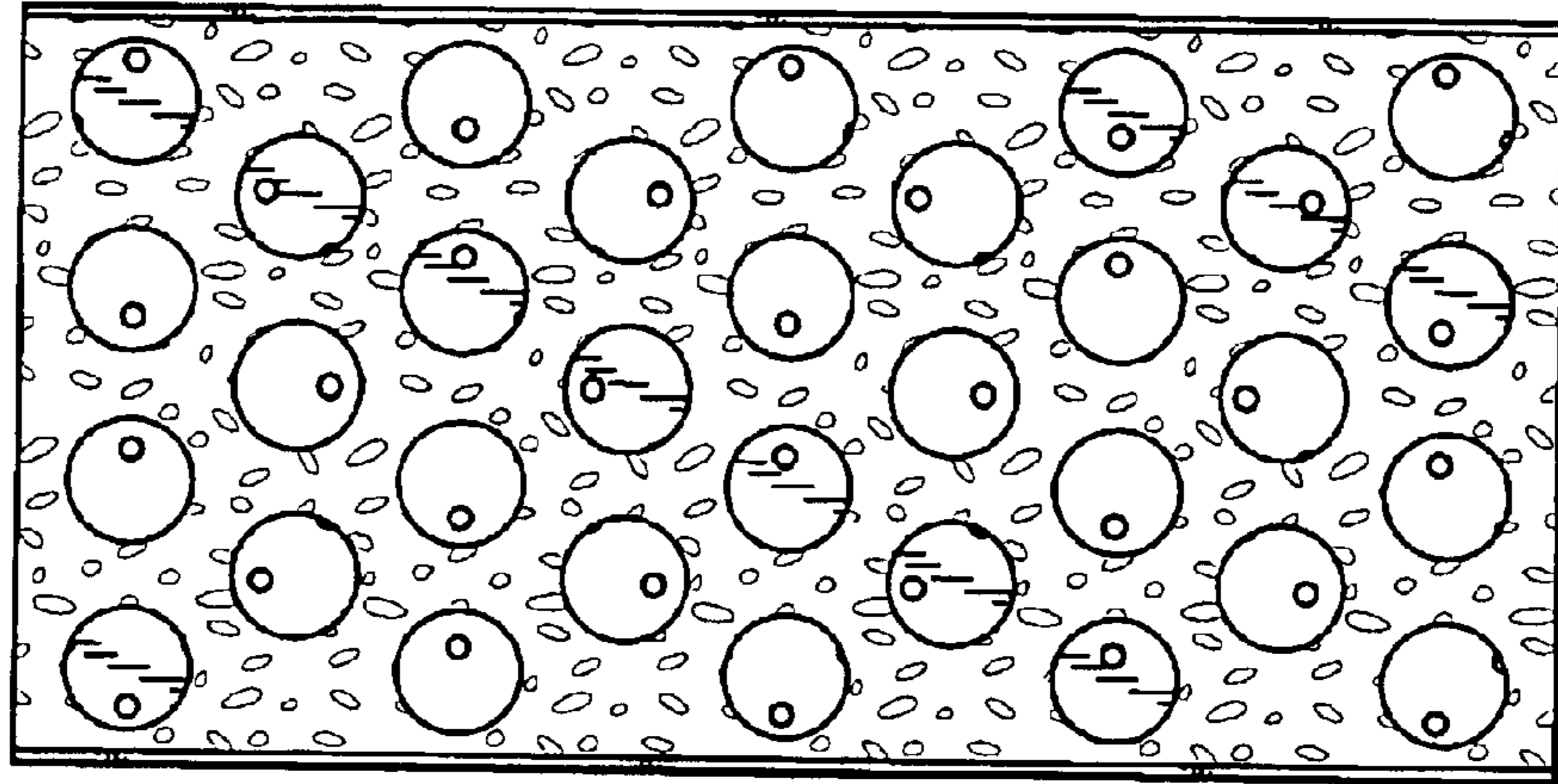


Fig. 3

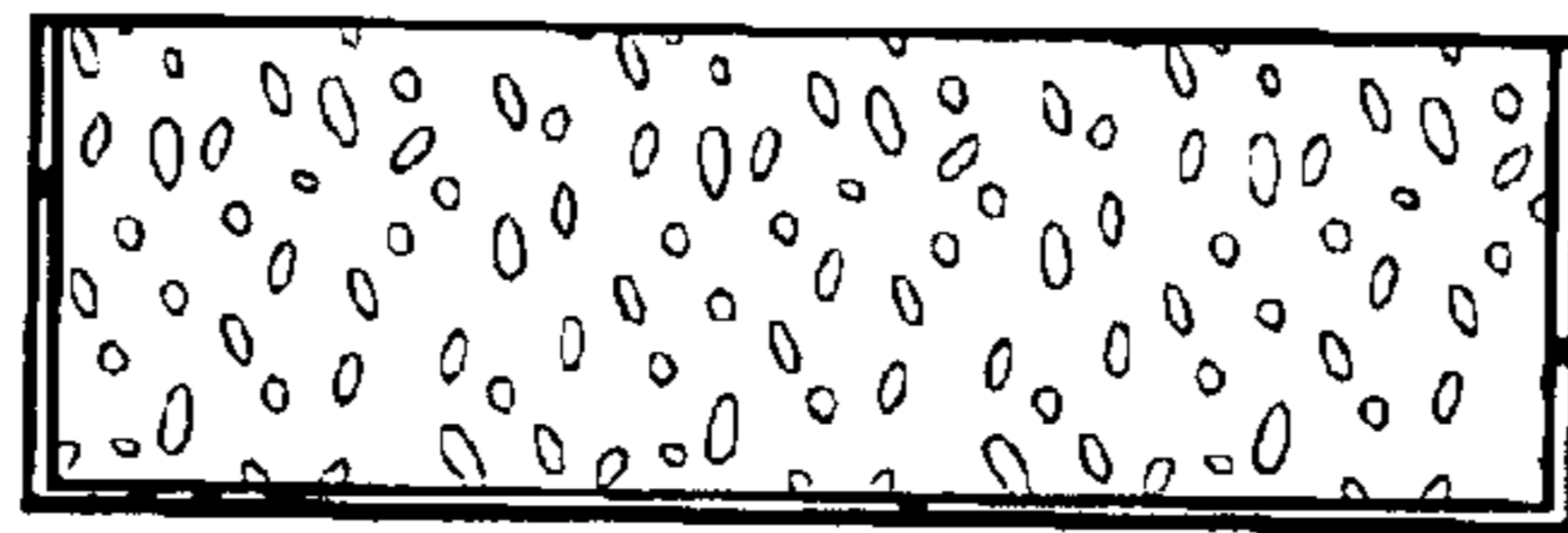


Fig. 4

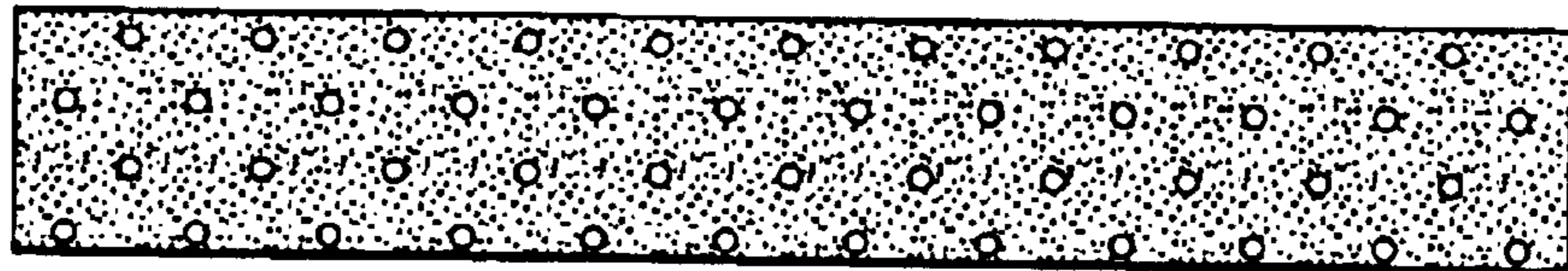


Fig. 5