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(12) **United States Design Patent**  
**Araki et al.**

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(54) **SHEET SENSOR**  
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(\*\*) Term: **15 Years**

8,395,014 B2 \* 3/2013 Helmer ..... A61F 13/42  
340/573.5  
8,398,603 B2 \* 3/2013 Thirstrup ..... A61F 13/42  
602/41  
D680,012 S \* 4/2013 Granus ..... D10/101  
D687,393 S \* 8/2013 Lin ..... D13/177  
D720,311 S \* 12/2014 Shiroyama ..... D13/182  
D723,701 S \* 3/2015 Maki ..... D24/187  
D826,740 S \* 8/2018 Stevens ..... D24/126  
D831,510 S \* 10/2018 Yi ..... D10/56  
D868,604 S \* 12/2019 Sanroma ..... D10/52  
D889,293 S \* 7/2020 Troglin ..... D10/101  
D898,598 S \* 10/2020 Roth ..... D10/101

(Continued)

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(51) **LOC (13) Cl.** ..... **10-04**

(52) **U.S. Cl.**  
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D13/177, 182  
CPC ..... G01N 33/246; A61F 13/42; A61F 5/48;  
A61M 1/3653; G01M 3/18  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,971,371 A \* 7/1976 Bloom ..... A61F 5/48  
128/886  
D618,567 S \* 6/2010 Brooking ..... D10/56

**FOREIGN PATENT DOCUMENTS**

JP HC2201439800 11/2010  
JP D1614501 S 8/2018

(Continued)

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(74) *Attorney, Agent, or Firm* — The Webb Law Firm

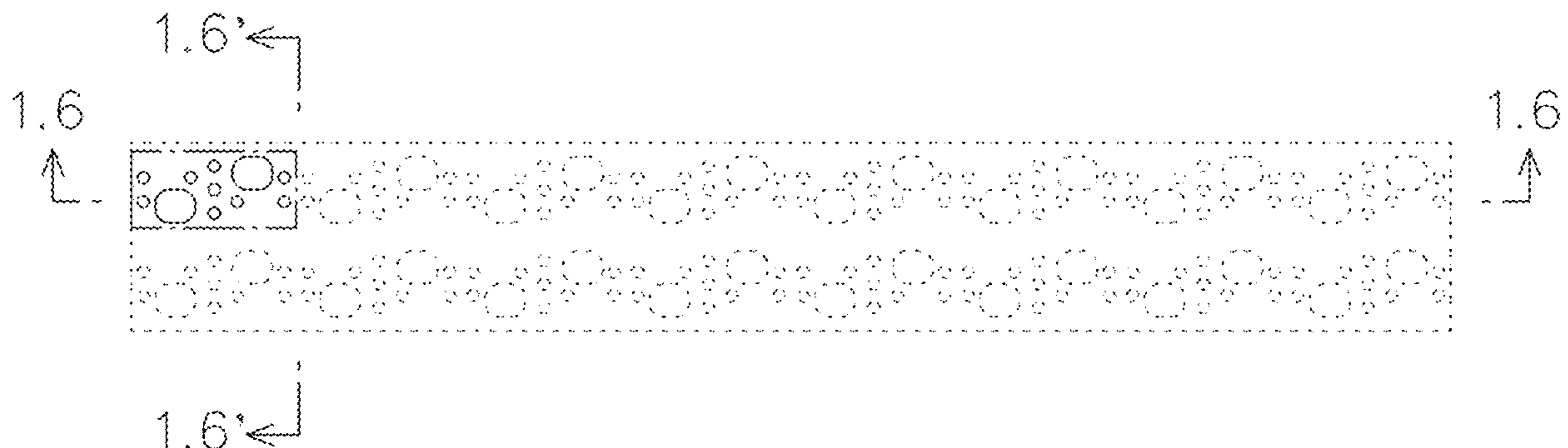
(57) **CLAIM**

The ornamental design for a sheet sensor, as shown and described.

**DESCRIPTION**

1. Sheet sensor  
**1.1** : Front  
**1.2** : Back  
**1.3** : Top  
**1.4** : Right  
**1.5** : Left  
**1.6** : Enlarged cross-sectional view  
**1.7** : Reference view of state in use  
The bottom view is a mirror image of Fig. 1.3.  
The broken line showing is included for the purpose of illustrating portions of the “article” and forms no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



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**References Cited**

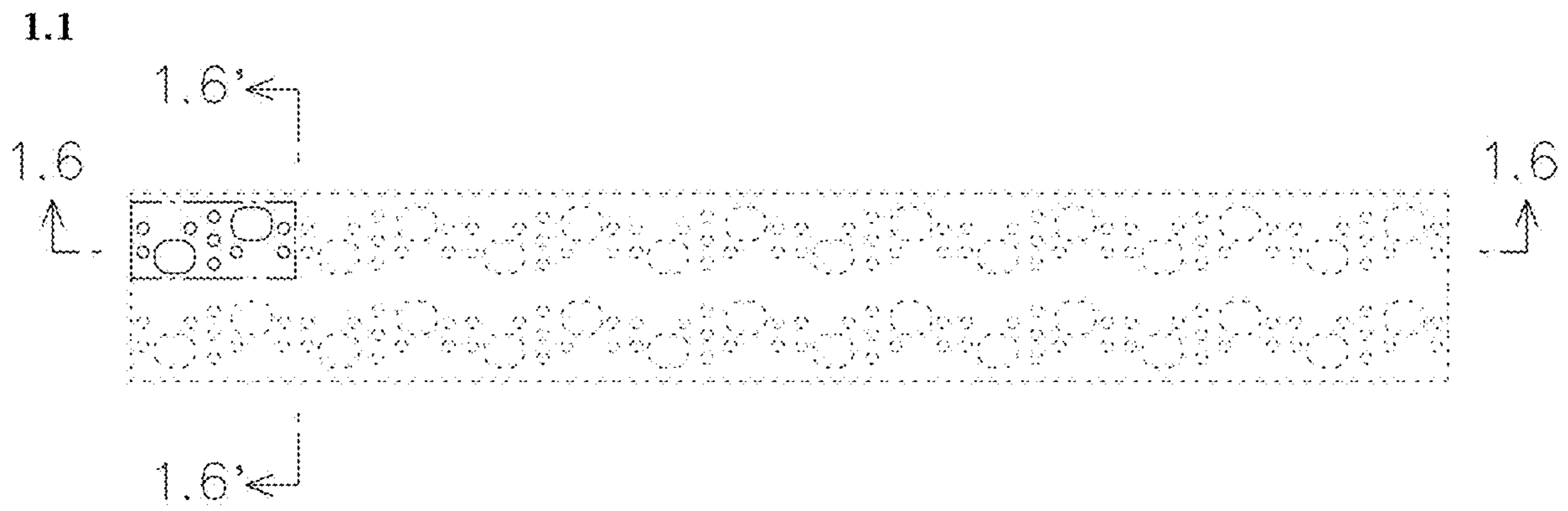
U.S. PATENT DOCUMENTS

D923,779 S \* 6/2021 Adair ..... D24/125  
11,229,557 B2 \* 1/2022 Kurt ..... A61F 13/42  
2010/0301877 A1 \* 12/2010 Paterson ..... G01N 33/246  
324/664  
2013/0053754 A1 \* 2/2013 Heppe ..... A61M 1/3653  
604/6.16  
2020/0333276 A1 \* 10/2020 Ikoma ..... G01M 3/18

FOREIGN PATENT DOCUMENTS

JP D1614501 S 11/2019  
KR 300863174 7/2016  
KR 300917476 8/2017  
KR 300981566 11/2018

\* cited by examiner



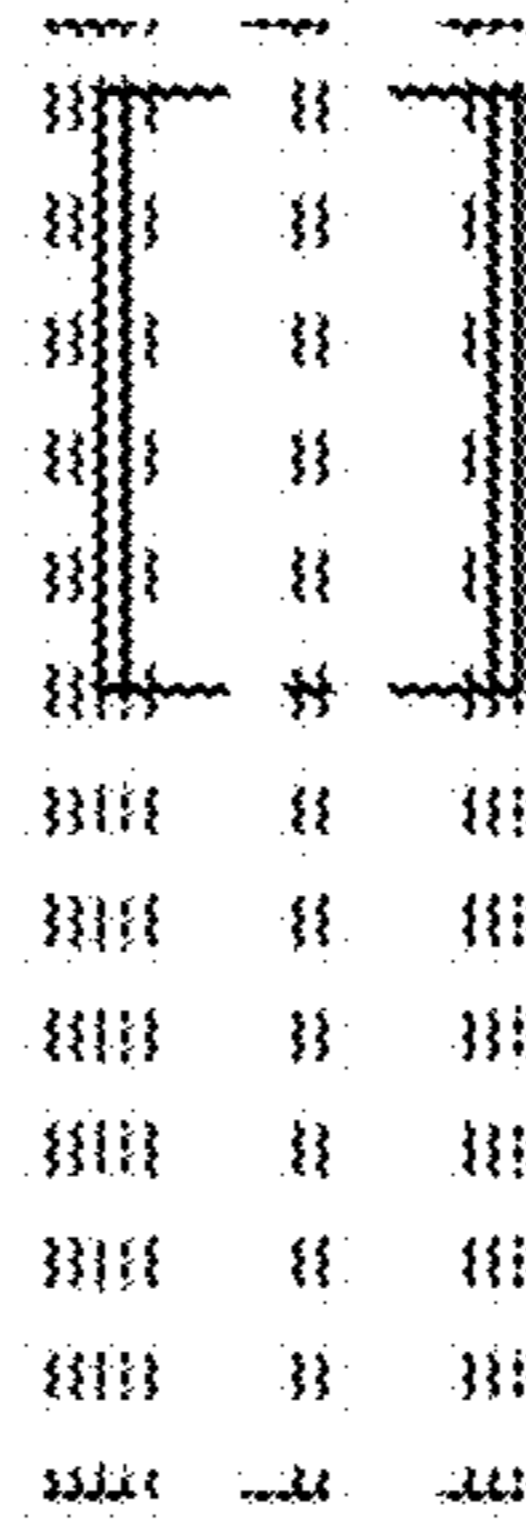
**1.2**



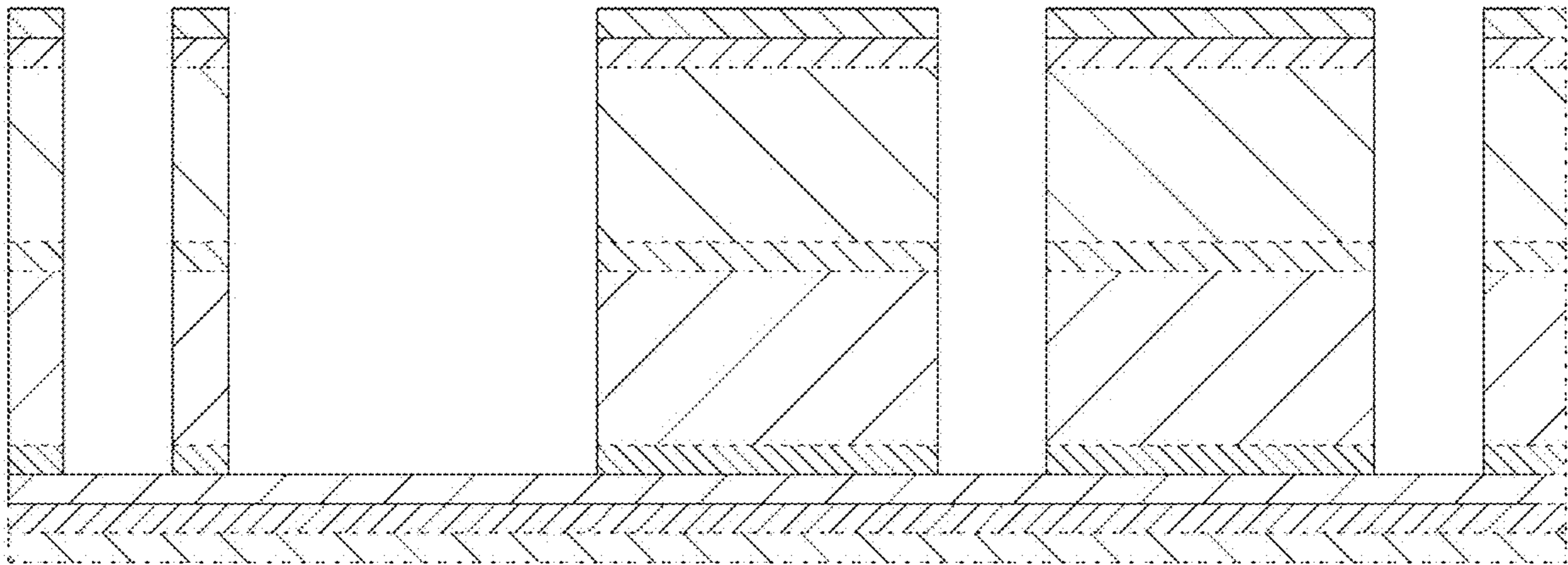




1.5



1.6





1.7

