

No. 813,246.

PATENTED FEB. 20, 1906.

A. R. SPEER.
PARTITIONED PACKING CASE.
APPLICATION FILED APR. 1, 1905.

Fig. 1.

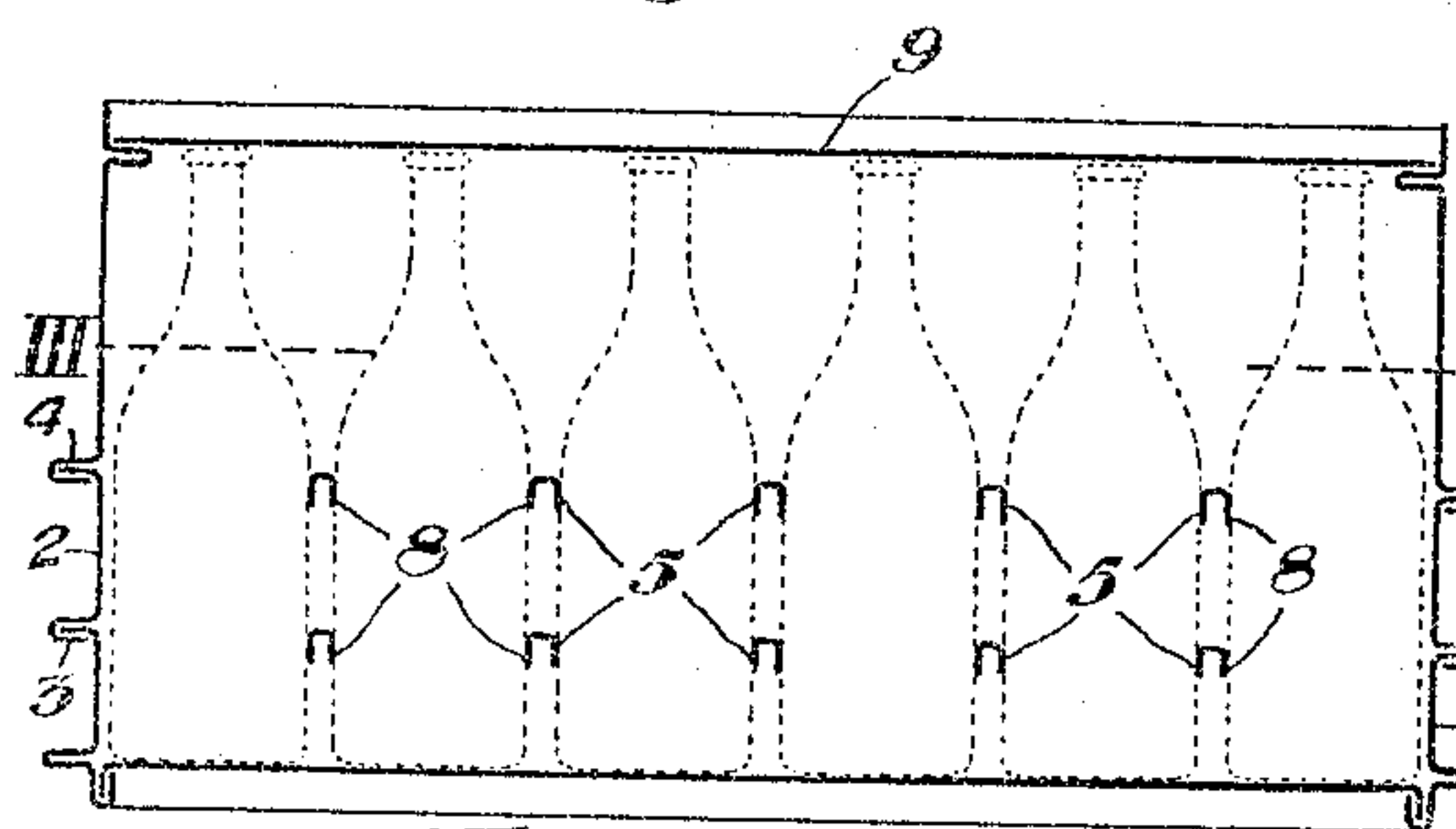


Fig. 2.

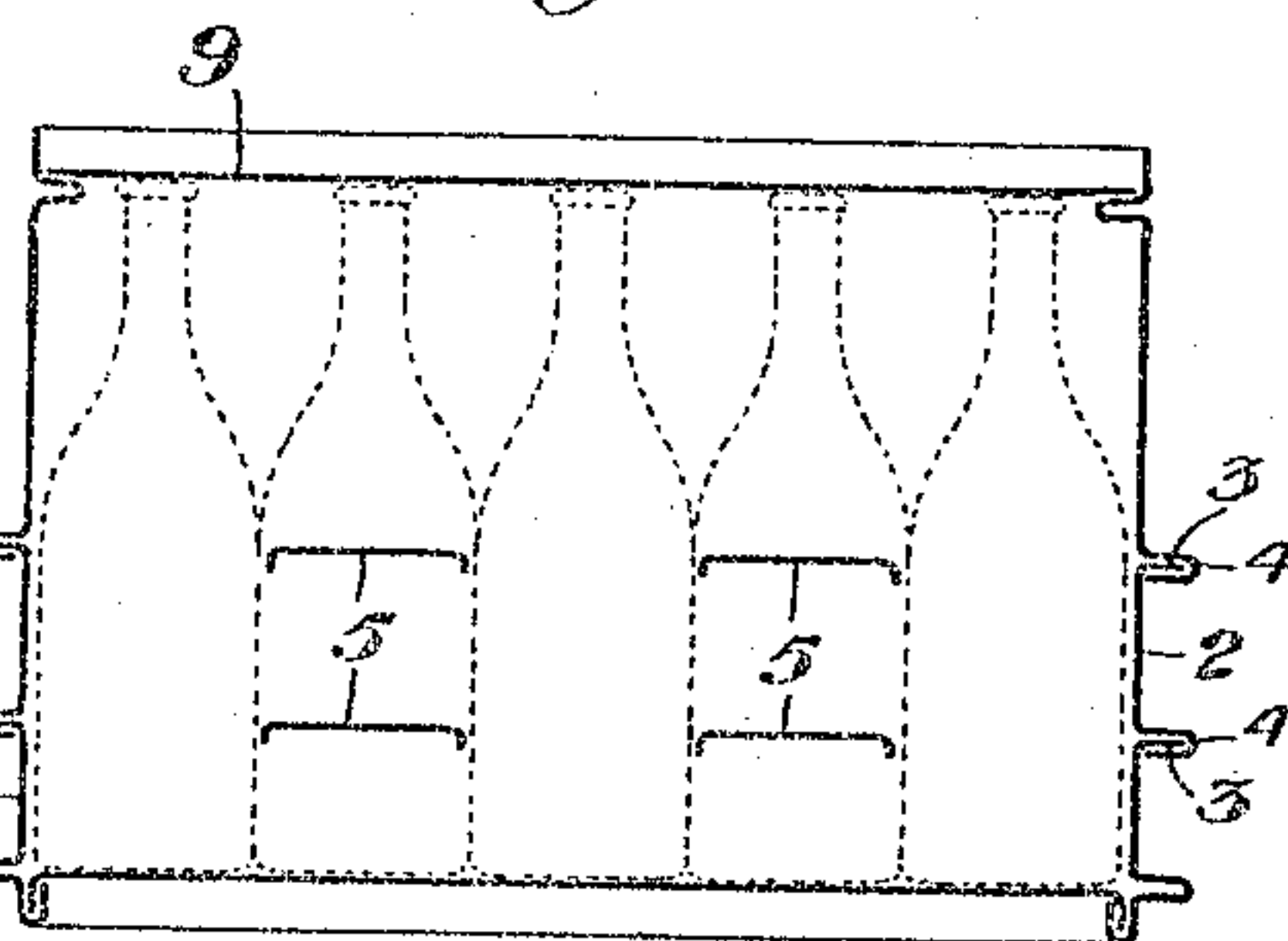


Fig. 3. II

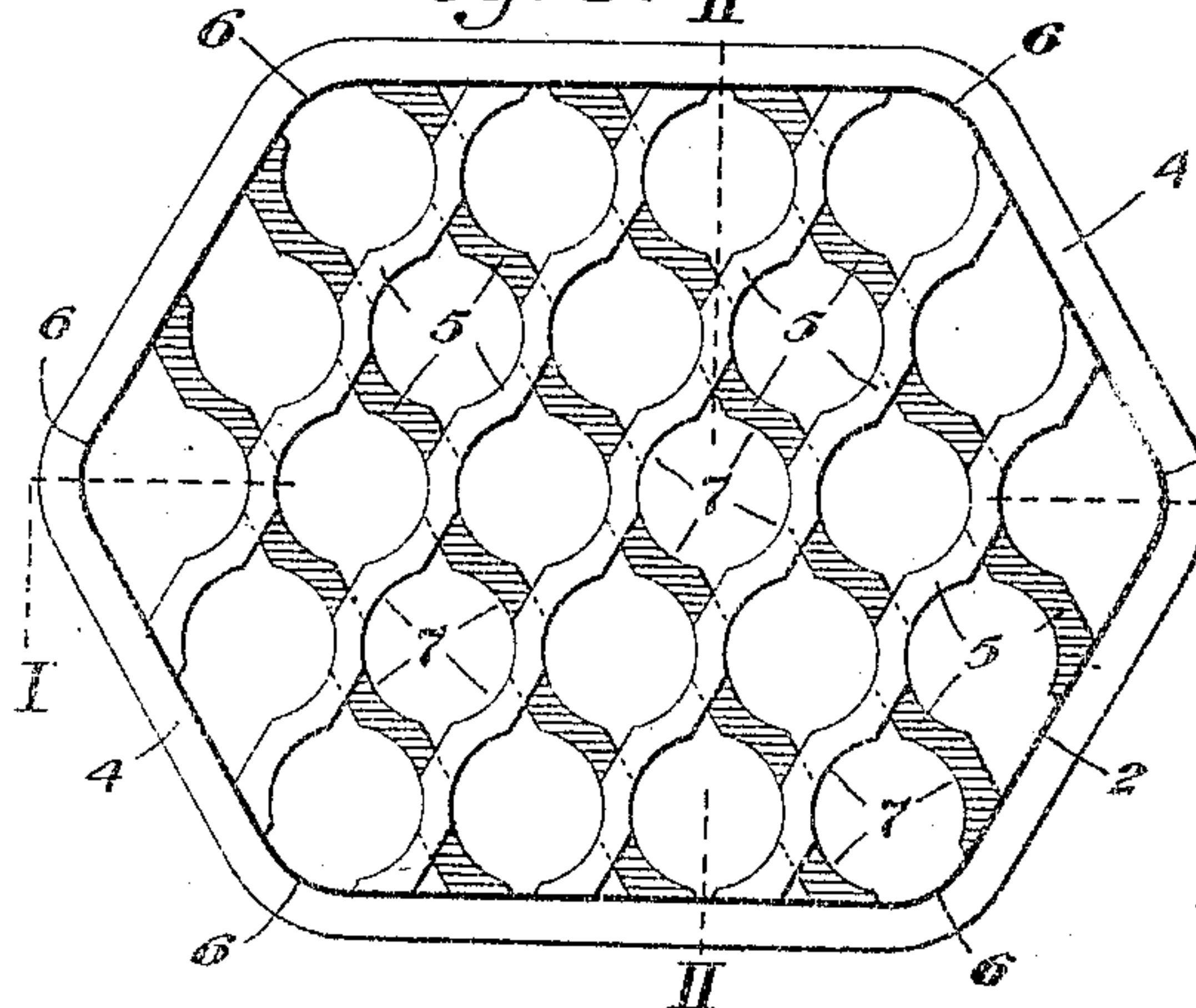


Fig. 4.

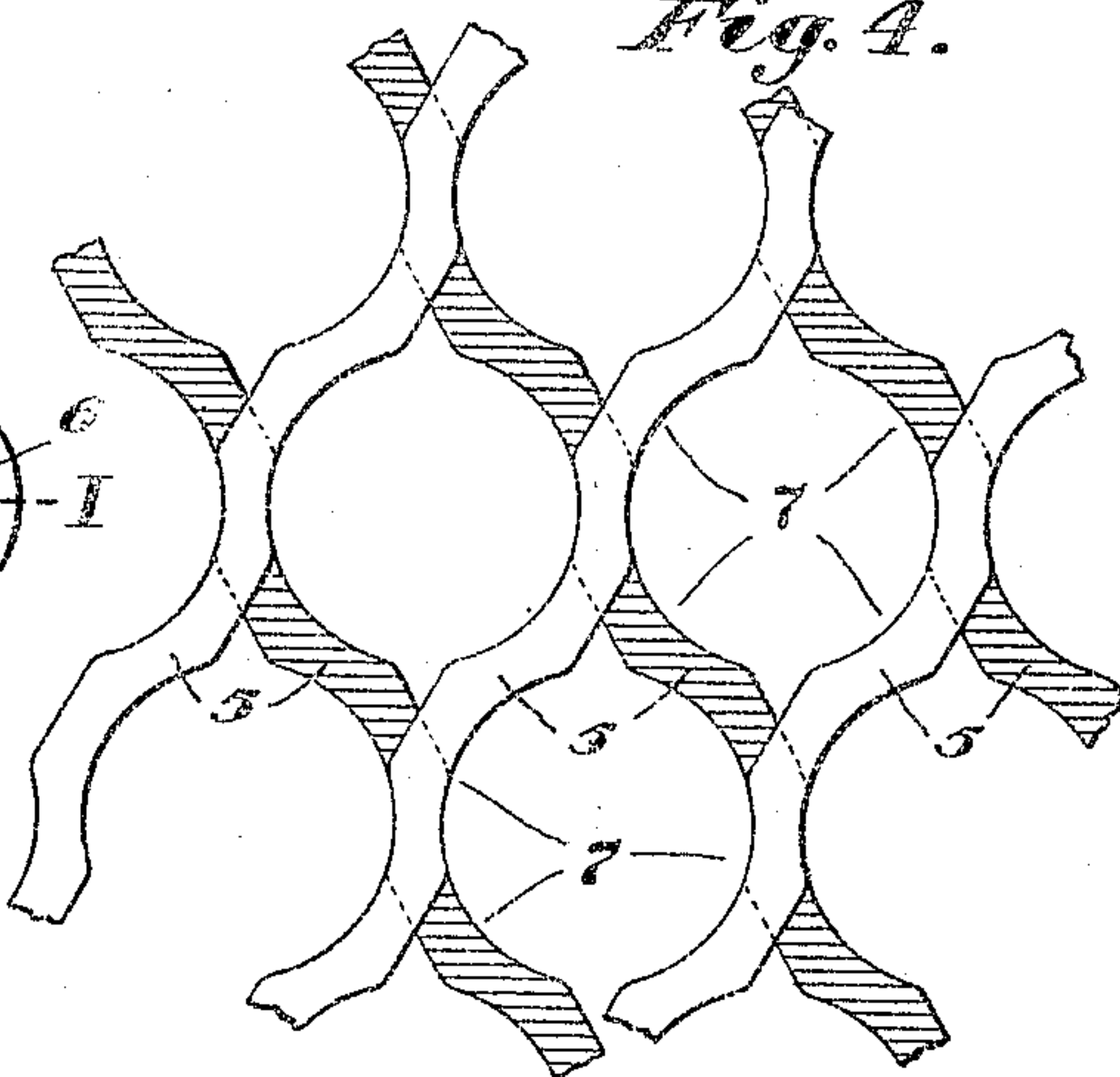


Fig. 5.

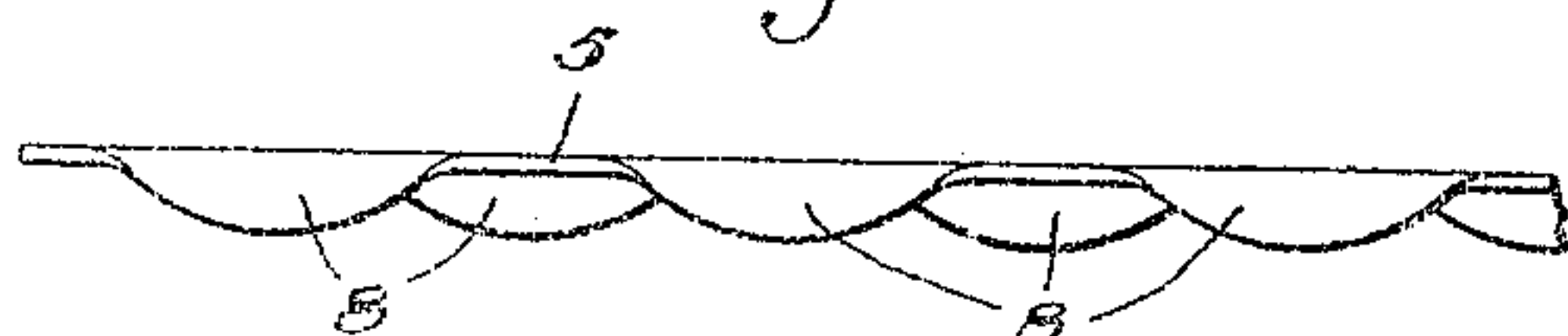


Fig. 6.

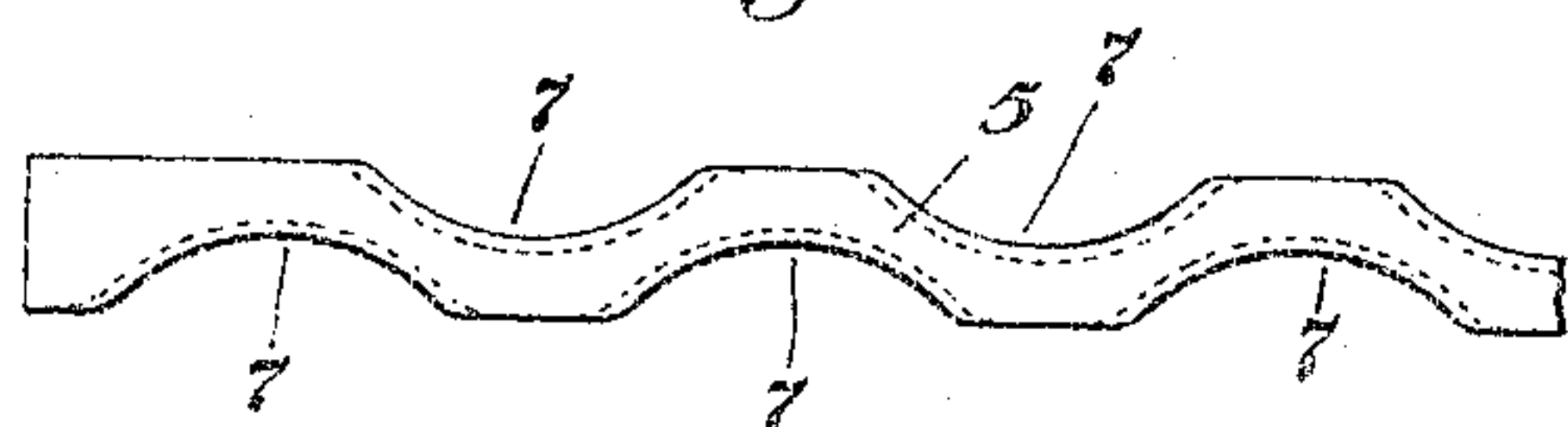
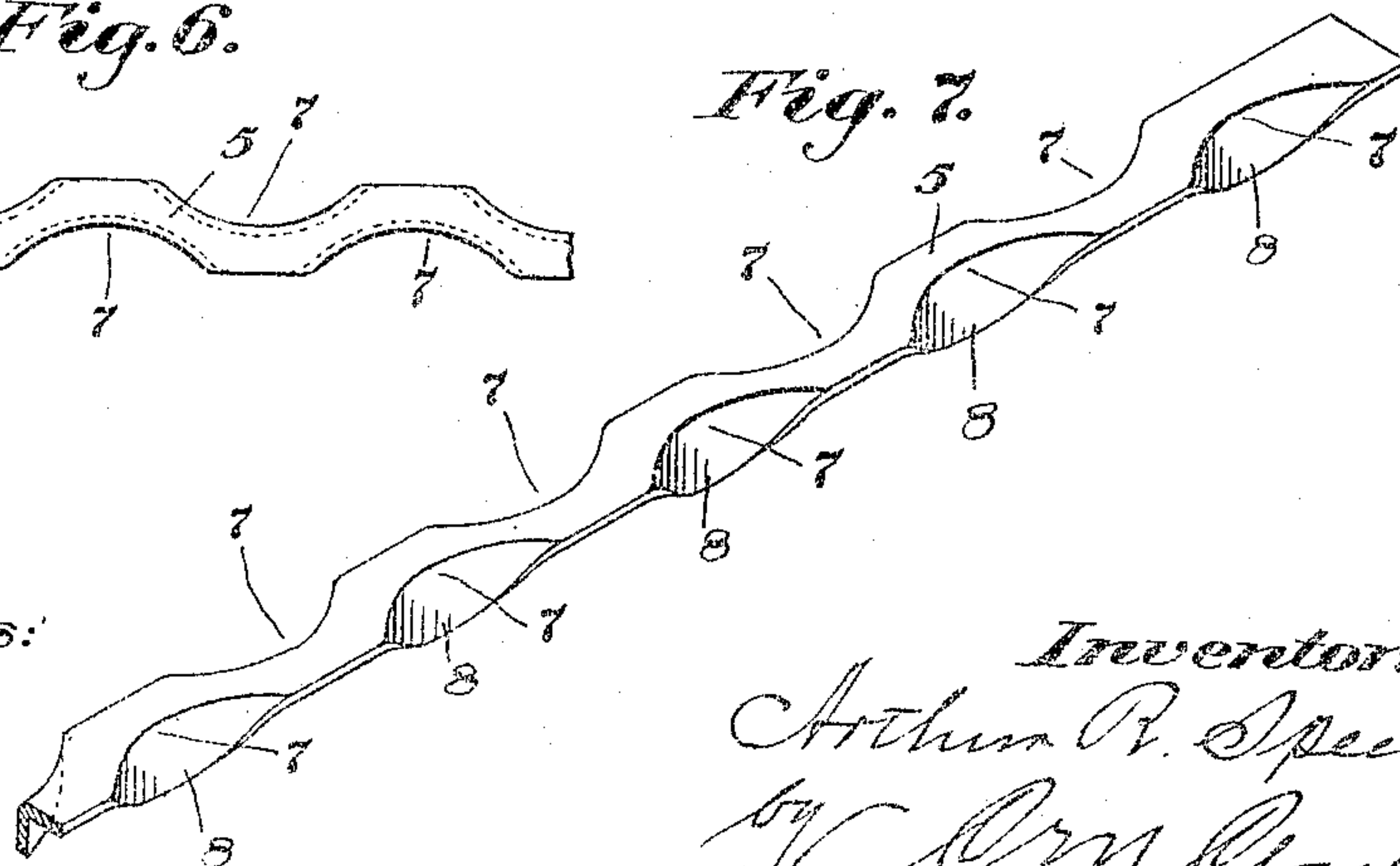


Fig. 7.



Witnesses:

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UNITED STATES PATENT OFFICE.

ARTHUR R. SPEER, OF PITTSBURG, PENNSYLVANIA.

PARTITIONED PACKING-CASE.

No. 813,246.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed April 1, 1905. Serial No. 253,332.

To all whom it may concern:

Be it known that I, ARTHUR R. SPEER, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Partitioned Packing-Cases, of which the following is a specification, reference being had therein to the accompanying drawings, forming part of the specification, in which—

Figure 1 is a longitudinal vertical section through a packing-case provided with my improved partition structure indicated by the line I I of Fig. 3. Fig. 2 is a cross-section at right angles to Fig. 1 indicated by the line II II of Fig. 3. Fig. 3 is a horizontal section on the line III III of Fig. 1. Fig. 4 is an enlarged detail plan view of portions of the upper and under partition members, illustrating their relative arrangement. Figs. 5 and 6 are detail views in elevation and plan, respectively, of a portion of one of the partition members. Fig. 7 is a similar view in perspective.

My invention refers to improvements in packing-cases for bottles provided with novel separating-partitions, the case being preferably constructed of light sheet metal and so designed as to contain a definite number of bottles with economy of space and the requisite strength and adaptability to shipping, storing, or handling.

Referring to the drawings, the sides and ends 2 of the case are formed of sheet metal built up in any suitable manner and preferably of adjacent sections connected by doubling the edge of one section around a corresponding flange 3 of the adjacent section, providing outwardly-extending strengthening-ribs 4, which encircle the case and coincide with the joints. While such construction is not essential to the case as a whole, it provides a stiff light structure and facilitates the attachment of the partition elements.

As shown in plan view in Fig. 3, the case is hexagonal in form and so designed as to receive just twenty-four bottles, arranged in diagonal rows and also longitudinal rows parallel with the sides of the case in all directions, approximating the cellular construction of a honeycomb.

The partition elements are composed of strips 5 of thin sheet metal diagonally arranged in layers, the partitions of each layer crossing the line of direction of the next-ad-

jacent layer diagonally, all of the partitions being parallel with one or the other of the diagonal ends and its opposite corresponding panel of the case.

As shown at 6, the case is rounded at the corners to conform to the corner-bottles, and the partition-strips are pressed by suitable dies to provide concave recesses 7 at alternately-opposite sides by turning the edges of the strip downwardly, as shown at 8, thus producing a series of channel-sections of inverted-U form, which intervene between the corresponding bottle-cavities, as clearly shown. The ends of the partition-strips are mitered to fit between the sections forming the walls of the case, and when formed in the manner described and incorporated with the case provide series of separating-partitions, which at different levels practically embrace the bottles entirely around.

It will be understood that the case is provided with a suitable top 9, secured in any convenient manner, and as thus constructed the device is very strong and serviceable, cheap and compact, and well adapted to the objects in view. The case may be made for varying numbers or sizes of bottles and may be changed or altered to suit different requirements of use by the skilled mechanic; but all such changes are to be considered as within the scope of the following claims.

What I claim is—

1. A hexagonal packing-case provided with series of diagonally-arranged partitions located on different levels, substantially as set forth.

2. A hexagonal packing-case provided with diagonally-arranged partitions, provided with alternately-arranged recesses, substantially as set forth.

3. A hexagonal packing-case provided with rounded corners and series of partitions arranged parallel with the ends of the case, and located at different levels, substantially as set forth.

4. A hexagonal packing-case of sheet metal provided with diagonally-arranged series of cross-partitions having concave recesses, substantially as set forth.

5. A hexagonal packing-case of sheet metal provided with diagonally-arranged series of cross-partitions formed of strips of sheet metal pressed to provide concave bottle-engaging recesses, substantially as set forth.

6. A partition member consisting of

strip of sheet metal having lateral concave recesses formed by bending the edge of the strip, substantially as set forth.

7. A partition member consisting of a
5 strip of sheet metal having alternately - arranged lateral concave recesses formed by bending the edges of the strip, substantially as set forth.

8. A hexagonal packing-case provided
10 with rounded corners and series of partitions

arranged at different levels and parallel with the ends of the case, said series extending transversely of each other, substantially as set forth.

In testimony whereof I affix my signature 15
in presence of two witnesses.

ARTHUR R. SPEER.

Witnesses:

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CHAS. S. LEPLEY.