

W. B. YATES.
 QUEEN BEE REARING DEVICE.
 APPLICATION FILED AUG. 30, 1920.

1,397,830.

Patented Nov. 22, 1921.

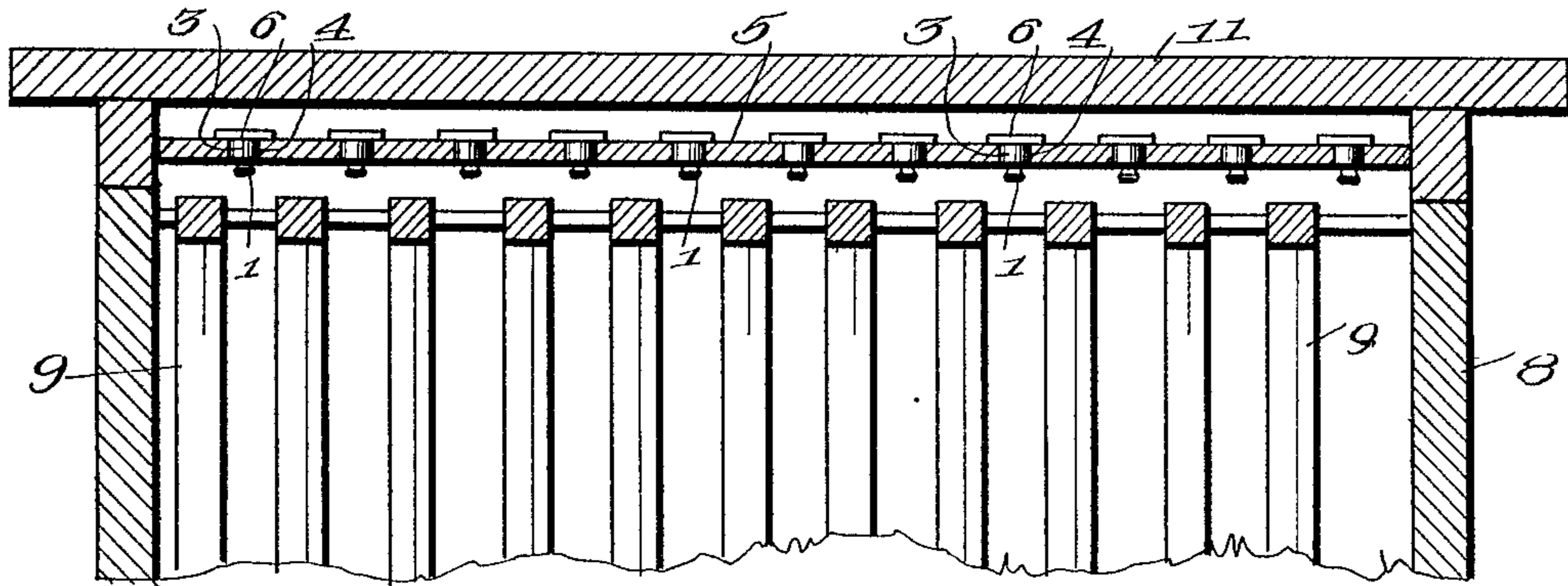


Fig. 1.

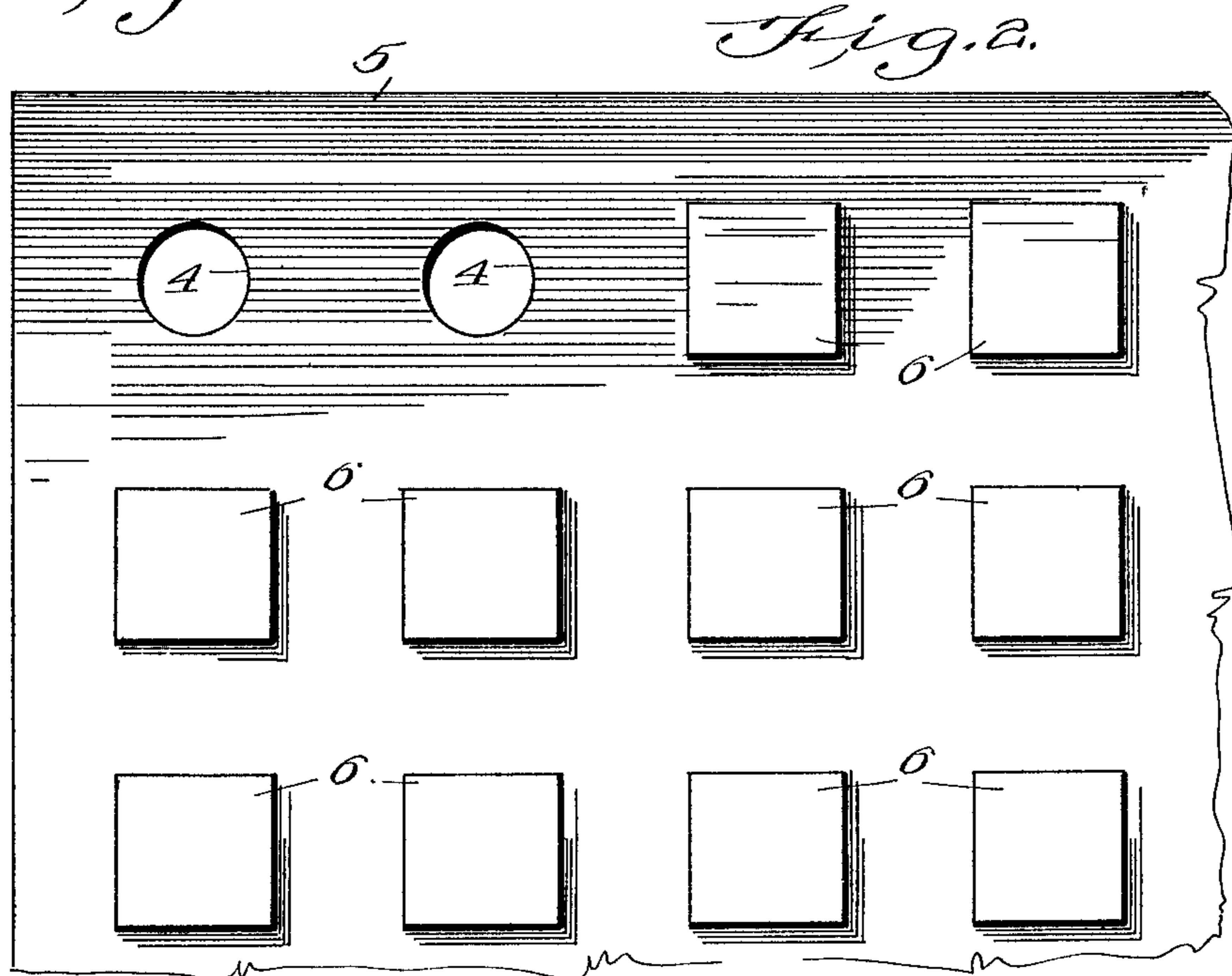


Fig. 2.

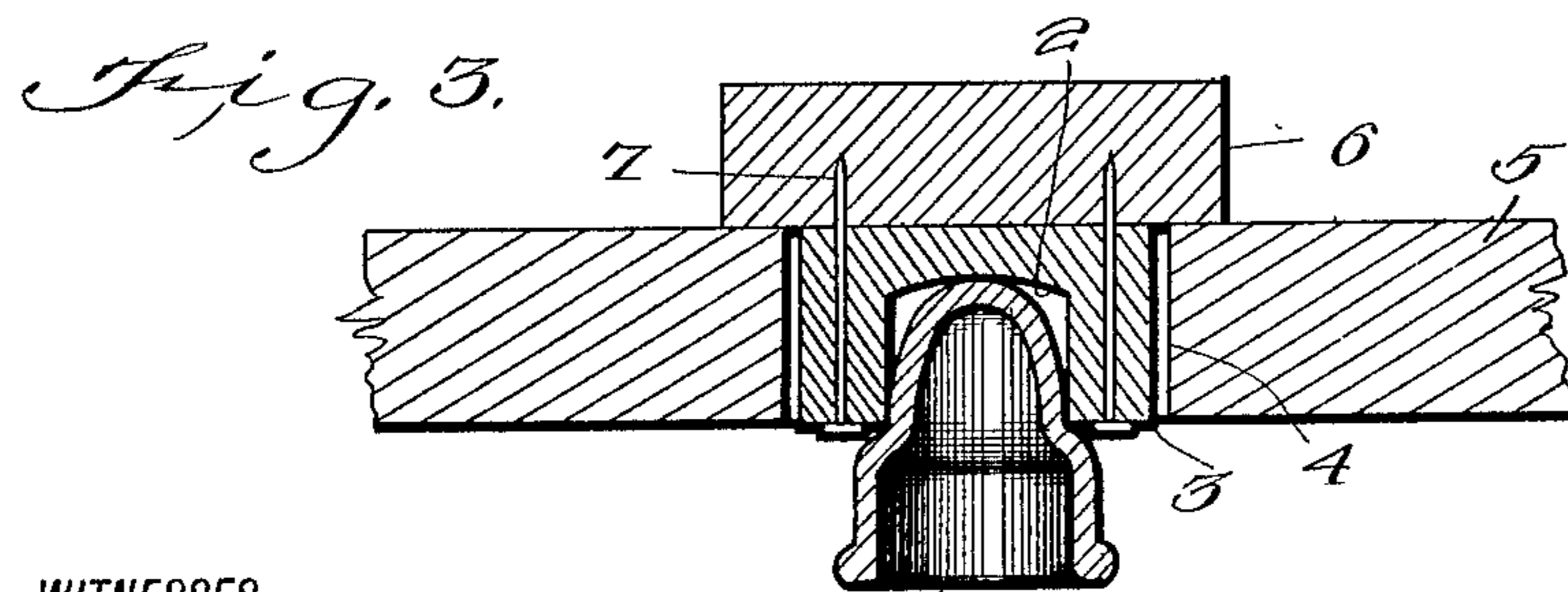


Fig. 3.

WITNESSES
[Signature]
 C. E. Drainer.

INVENTOR
 William B. Yates,
 BY *[Signature]*
 ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM BENJAMIN YATES, OF VENTURA, CALIFORNIA.

QUEEN-BEE-REARING DEVICE.

1,397,830.

Specification of Letters Patent.

Patented Nov. 22, 1921.

Application filed August 30, 1920. Serial No. 406,846.

To all whom it may concern:

Be it known that I, WILLIAM BENJAMIN YATES, a citizen of the United States, and a resident of Ventura, in the county of Ventura and State of California, have invented certain new and useful Improvements in Queen-Bee-Rearing Devices, of which the following is a specification.

My invention is an improvement in queen bee rearing devices, and has for its object to provide mechanism of the character specified, especially adapted to facilitate manipulation in queen bee rearing to permit the various manipulations necessary in such rearing, without leaving the hive open and exposed to robber bees, weather and the like.

In the drawings:—

Figure 1 is a front view of the upper portion of the hive with the improvement in place.

Fig. 2 is a top plan view of a portion of the supporting plate or board, and

Fig. 3 is an enlarged partial vertical section.

As is known, in queen bee rearing it is necessary to remove cells for examination and with the usual construction the hive is opened, the bees are disturbed and exposed to robber bees, weather and the like, since the cells are supported by the frames. In the present invention, each cell indicated at 1 is independently supported. Each of the cells 1 is received in a recess 2 in a cell cup 3, in the form of a block circular in cross section, which is of a size to be received within a circular opening 4 in a supporting plate 5. Each cell 1 may be of wax.

A holder 6 is secured to that face of each cell cup 3 remote from the cell 1, the said holder 6 being secured to the cell cup by means of nails 7 or the like.

The cell cup 3 as shown in Fig. 3, is of less diameter than the diameter of the opening 4 in the plate 5, so that when in place there will be a space between the peripheral surface of the cell cup and the wall of the opening. The holder 6 is of greater diameter than the diameter of the opening 4, so that it will extend beyond the opening at each point.

In use the cell cups with the cells in place are arranged as shown in Figs. 1 and 2, the cell cups being in the openings 4 with the cells 1 below the plate 5, and with the holder 6 above the said plate. This plate 5 which is the support for the cell cups is arranged to rest on hive 8 at the top thereof above the comb frame 9.

When it is desired to examine a cell, it is only necessary to lift the top 11 from the hive, and remove the holder 6 with the cell, the board 5 remaining in place protecting the bees and the honey, and after the cell or cells have been examined the top 11 may be replaced. It will be obvious that the holder 6 for the cell cups and the plate 5 may be of any desired size, or of any preferred material.

I claim:—

1. In a bee culture device, a supporting plate having a plurality of openings, holders resting on said plate, cell cups attached to said holders and freely passed through said openings, and honey bee cells carried by said cell cups and extending out through one side of the plate.

2. A device of the character specified, comprising a plate having a series of openings, a series of cell cups to which the cells are attached, and shaped to fit within the openings with the cells at one face of the plate, and holders for limiting the movement of the cell cups through the openings, and for covering said openings about the cell cups.

3. In a bee culture device, a supporting plate having a plurality of openings, holders resting on said plate, cell cups attached to said holders and freely passed through said openings, and honey bee cells carried by said cell cups and extending out through one side of the plate, said holders constituting a means for closing said openings.

4. In a bee hive, the combination with a supporting plate having an opening, of a cell freely passing through said opening, and a holder resting upon said plate for supporting the cell and closing said opening.

WILLIAM BENJAMIN YATES.