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2,001,845

PERFORATED QUEEN EXCLUDER IN BEEHIVES

Filed Jan. 31, 1933

Fig. 1.

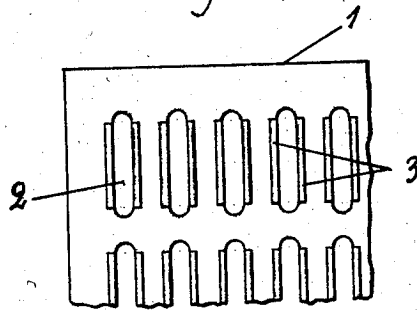


Fig. 2.

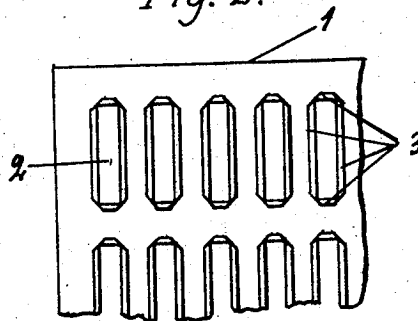
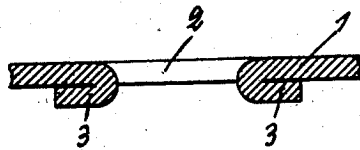


Fig. 3.



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# UNITED STATES PATENT OFFICE

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## PERFORATED QUEEN-EXCLUDER IN BEEHIVES

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In Sweden February 17, 1932

### 1 Claim. (Cl. 6—4)

This invention relates to improvements in and relating to perforated queen-excluders of sheet-metal for confining the queen to the brood-chamber in the beehive. The excluders are placed between the brood-chamber and super, and since the openings are just large enough to permit the worker bees to pass through, the queen is prevented from going above to lay eggs in the combs containing the surplus honey. At the perforation sharp burred edges at the side turned from the puncher are unavoidable. The sharp edges are subsequently removed by grinding, as the worker bees when crawling sharp edged openings will easily be hurt, and the worker bees avoid such openings. When grinding off such sharp burred edges it is unavoidable, that sharp edges will remain, even with very careful working.

The object of the invention is to remove this inconvenience. According to the invention the perforation of the openings is carried out in such a way, that flaps remain at the longitudinal and transverse sides or at least at the longitudinal sides of the openings. Subsequently said flaps are turned to one side of the sheet and flattened

down closely to this side, and any harm is excluded. The openings thus produced will present smooth and round edges.

In the annexed drawing Fig. 1 shows some openings, according to the invention, having flaps turned to the sheet at the longitudinal sides.

Fig. 2 shows some openings, according to the invention, having flaps turned to the sheet at the longitudinal and transverse sides.

Fig. 3 is a cross-section of an enlarged scale of an opening according to the invention.

Referring to the drawing, 1 is a part of a queen-excluder, 2 are openings, produced according to the invention, and 3 are the flaps.

I claim:

A queen excluder formed of sheet metal having a plurality of openings of greater length than width, one or more sides of the openings being folded back to provide a flange with curving surface throughout its length and width, said flange being in direct contact with the connecting member between the openings.

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