

J. Y. DETWILER.  
Artificial Base for Honey-Comb.

No. 215,336.

Patented May 13, 1879.

Fig. 1.

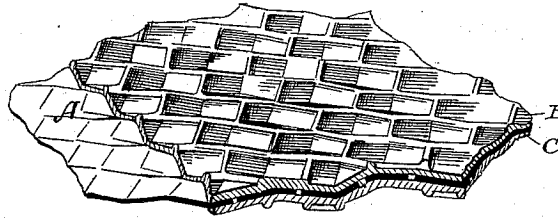


Fig. 2.

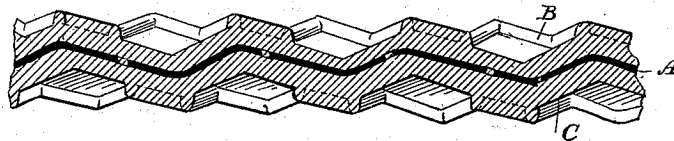
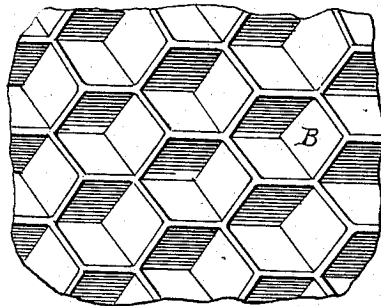


Fig. 3.



Attest:

Clarence Poole  
P. K. Evans

Inventor:

John Y. Detwiler  
by A. H. Evans & Co  
Attys.

# UNITED STATES PATENT OFFICE.

JOHN Y. DETWILER, OF TOLEDO, OHIO.

## IMPROVEMENT IN ARTIFICIAL BASES FOR HONEY-COMBS.

Specification forming part of Letters Patent No. **215,336**, dated May 13, 1879; application filed January 29, 1879.

*To all whom it may concern:*

Be it known that I, JOHN Y. DETWILER, of Toledo, in the county of Lucas and State of Ohio, have invented a new and Improved Artificial Base for Honey-Combs; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view, partly in section, of a piece of my artificial comb. Fig. 2 is a sectional view of the same. Fig. 3 is a plan view, showing the pits or depressions.

My invention relates to artificial foundations for honey-combs, wherein bees-wax forms the surface, and has for its object to overcome the disadvantages now experienced when the foundation is made entirely of wax, or of two imprinted layers of wax and an interposed layer of textile fabric. When the foundation is made wholly of wax it is liable to break, both in transportation and while at rest, from the weight and warmth of the suspended bees. This kind of a foundation has also been made with wires inserted through a body or sheet of wax; but it is very expensive, owing to the quantity of wax required by such construction.

My invention consists in an artificial foundation for honey-comb, formed by two layers of bees-wax embossed or imprinted in the proper shape adhering to the surfaces of a metallic foil, perforated as hereinafter described.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is a sheet of tin or other foil, perforated, on each surface of which is made to adhere a layer of bees-wax, B C. It is then passed through rollers, and the proper irregularities are imprinted or embossed on the wax, making the foundation ready for use.

The foundation so constructed has great strength, and at the same time it is very cheaply made, the minimum quantity of wax being used. It is not open to the serious objections that arise in using the interposed textile fabric or paper, both of which have heretofore been used. The bees fray out the fabric or paper, and spend most of their time endeavoring to pull out the threads or paper, or cutting through the threads, which they can easily do.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

An artificial foundation for honey-comb consisting of a sheet of perforated metallic foil coated on each side with a layer of wax, and then pressed into form, substantially as set forth.

JOHN Y. DETWILER.

Witnesses:

E. T. LEWIS,  
A. E. WILSON.