

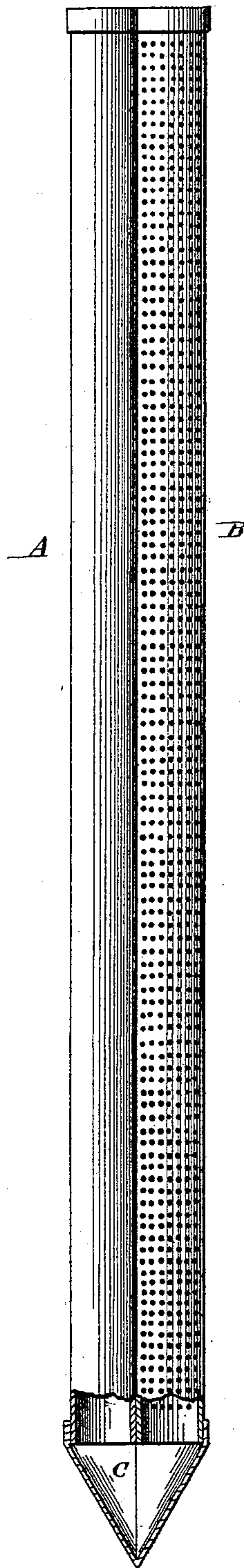
(No Model.)

E. J. BARR.  
GRAIN VENTILATOR.

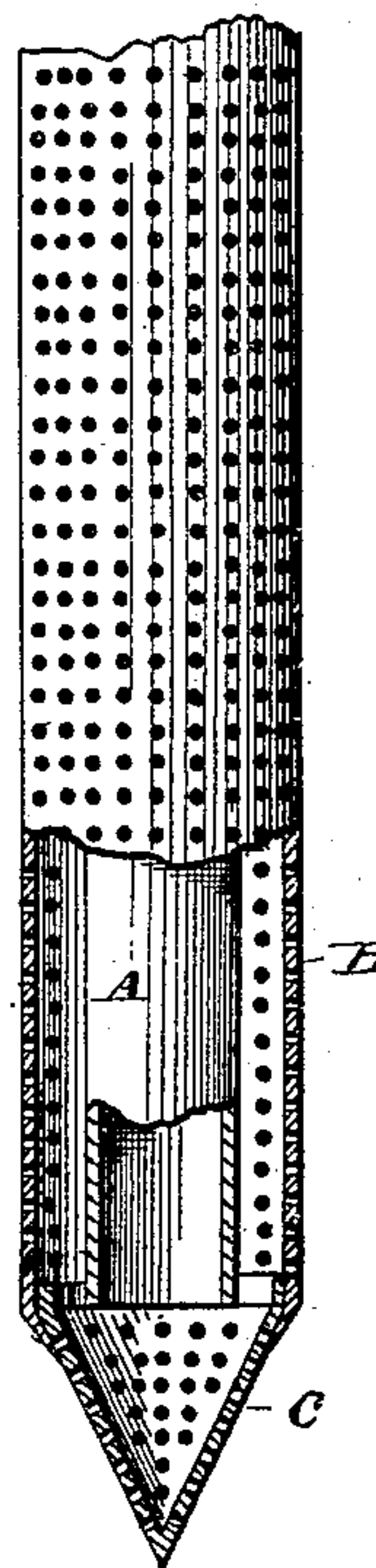
No. 265,370.

Patented Oct. 3, 1882.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*  
*Edw. L. Jewell.*  
*J. J. McCarthy*

*Inventor.*  
*Eli J. Barr.*  
*C. M. Alexander.*  
*Attorney.*

# UNITED STATES PATENT OFFICE

ELI J. BARR, OF LITIZ, PENNSYLVANIA.

## GRAIN-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 265,370, dated October 3, 1882.

Application filed August 14, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ELI J. BARR, of Litiz, in the county of Lancaster, and in the State of Pennsylvania, have invented certain new and  
5 useful Improvements in Grain-Ventilators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked  
10 thereon, making a part of this specification.

This invention has for its object to provide certain improved means for cooling and ventilating grain in bins, if it should become heated, without removing or disturbing it. These ob-  
15 jects I attain by the apparatus illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation, showing my improved device, a portion being broken away at the bottom in order to show the interior;  
20 and Fig. 2 represents a view partially in vertical section, showing a modification of my invention.

The letters A B indicate two parallel tubes of metal, and of any convenient dimensions,  
25 which are secured together side by side in any suitable manner. One of said tubes is foraminous, as indicated, the other tube being imperforate. The said tubes terminate in a conical bottom, C, by means of which they communicate with each other. The foraminous tube  
30 should be provided with a suitable cap at the upper end, or otherwise closed at such end, and the imperforate tube provided with an opening at the top for the admission of air.

In the modification shown in Fig. 2 of the  
35 drawing, the two tubes are concentric, the imperforate tube being within the foraminous tube. The conical bottom in this case is attached to the outer tube, and the lower end of the inner tube opens directly into said bottom,  
40 which is perforated, as indicated.

In employing my improved device it is inserted into the body of grain, the conical bottom permitting it to enter freely. When inserted air is introduced into the imperforate  
45 tube, and, passing downward, enters the foraminous tube at the bottom, by which it is distributed throughout the grain, cooling and ventilating it thoroughly.

The device may be inserted vertically or in  
50 any other direction into the grain.

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

The improved apparatus for cooling and ven-  
55 tilating grain, consisting of a foraminous and an imperforate tube connected at their lower ends by a conical point, and adapted to be inserted in a body of grain, substantially as specified.  
60

In testimony whereof I affix my signature, in presence of two witnesses, this 20th day of July, 1882.

ELI J. BARR.

Witnesses:

JOSEPH BUCH,  
B. F. BAKER.