

H. SHAW.  
GRINDING MILL.

Patented Aug. 17, 1869.

No. 93,913.

Fig. 1

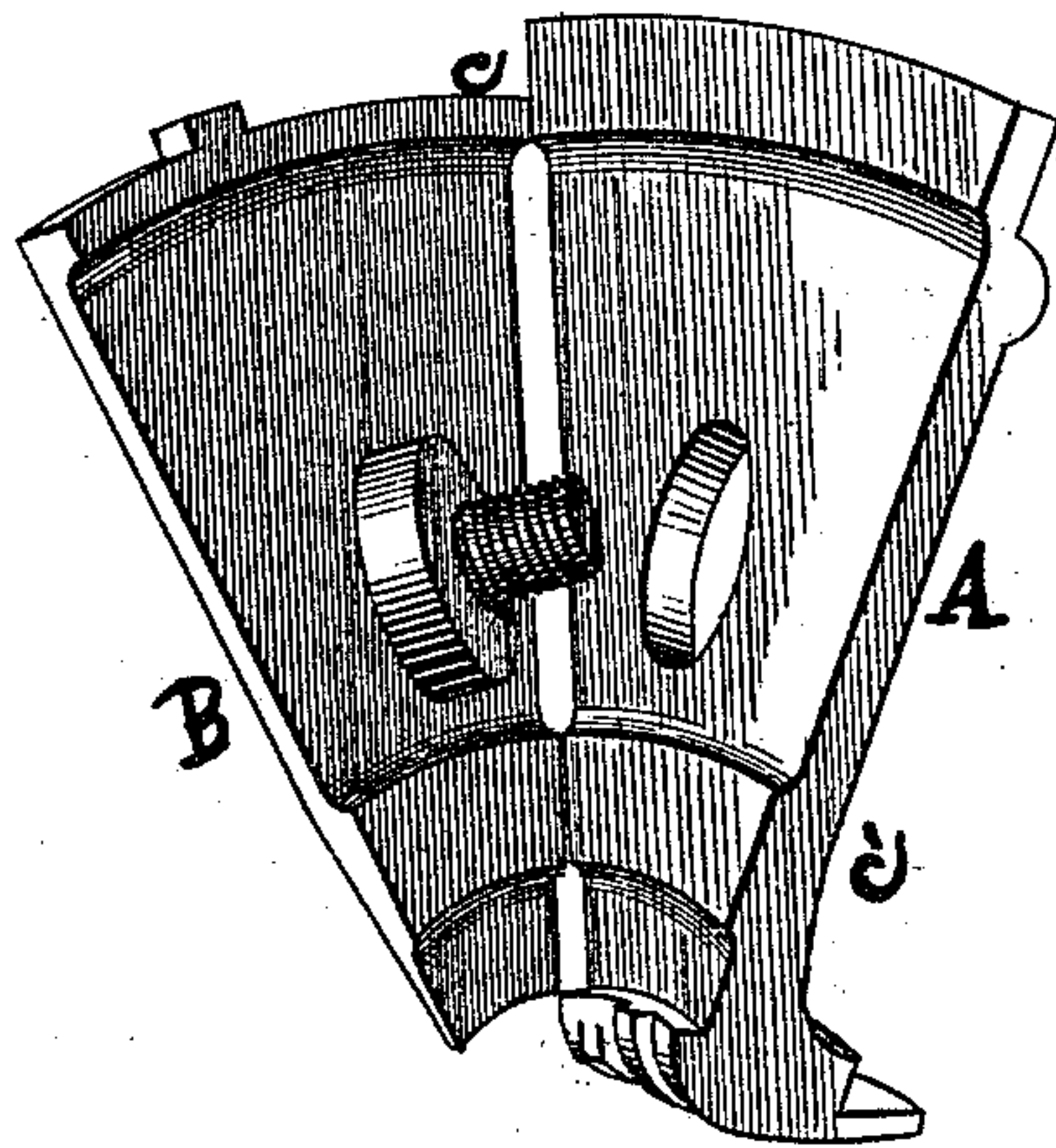
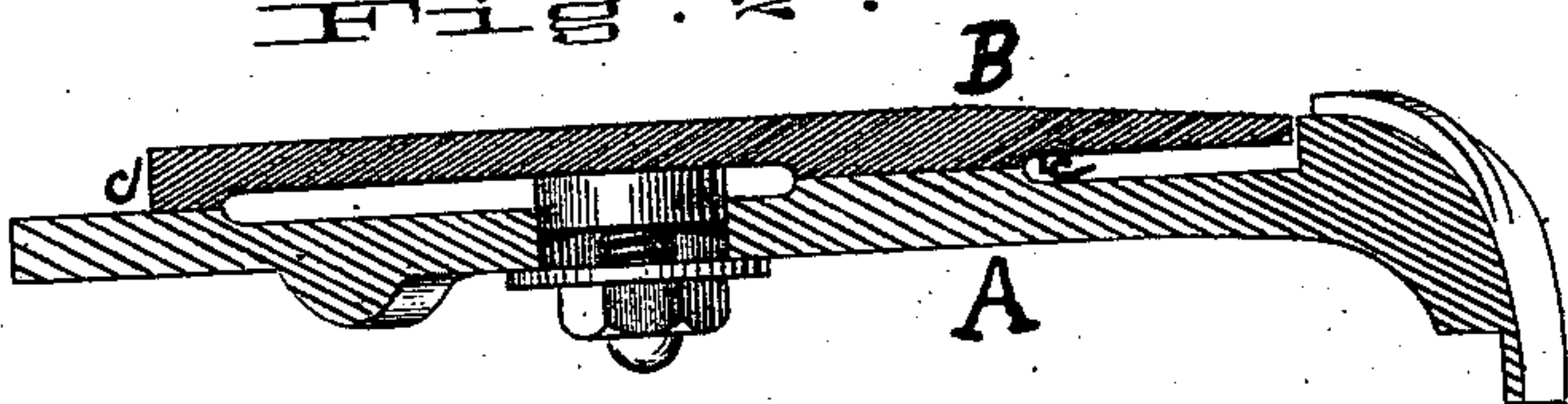


Fig. 2



Attest  
James Moore  
S. S. Morris.

Inventor;  
Henry Shaw

# United States Patent Office.

HENRY SHAW, OF CINCINNATI, OHIO.

Letters Patent No. 93,913, dated August 17, 1869.

## IMPROVEMENT IN GRINDING-MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, HENRY SHAW, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a certain new and useful Improvement in Iron Grinding-Mills; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view of a section of a grinding-plate, A, and supporting or back-plate, B, both being placed in position to show their interior surfaces.

Figure 2 is a section of plates A and B, joined together in the usual manner.

The object of my invention is an iron grinding-mill, the grinding-surfaces of which shall remain cool during the operation of grinding, at the same time dispensing with the intermediate layer of non-conducting substance, described and claimed in the Letters Patent granted Henry Shaw and William D. Leavitt, on the 14th day of July, 1868.

My means for accomplishing the above purpose is

an air-chamber formed between the grinding-plates, respectively, and the back or supporting-plates.

Projections C and C' are formed upon the interior surfaces of the grinding and back-plates, as clearly shown in the drawings.

The plates are circular in form, the projections also are circular, and the plates, grinding and back-plates, are rigidly attached to each other, so that none of the material ground or to be ground, may pass into the air-chamber. The well-known low conducting-power of air makes it an efficient agent for the above-described purpose.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

An iron grinding-mill, having the projections C and C' between the grinding and back-plates, for the purpose described.

HENRY SHAW.

Witnesses:

S. S. MORRIS,  
THEO. ALBERT.