

W. Parkison.
Pulp Grinder.
N^o 86,858. Patented Feb. 9, 1869.

Fig. 1.

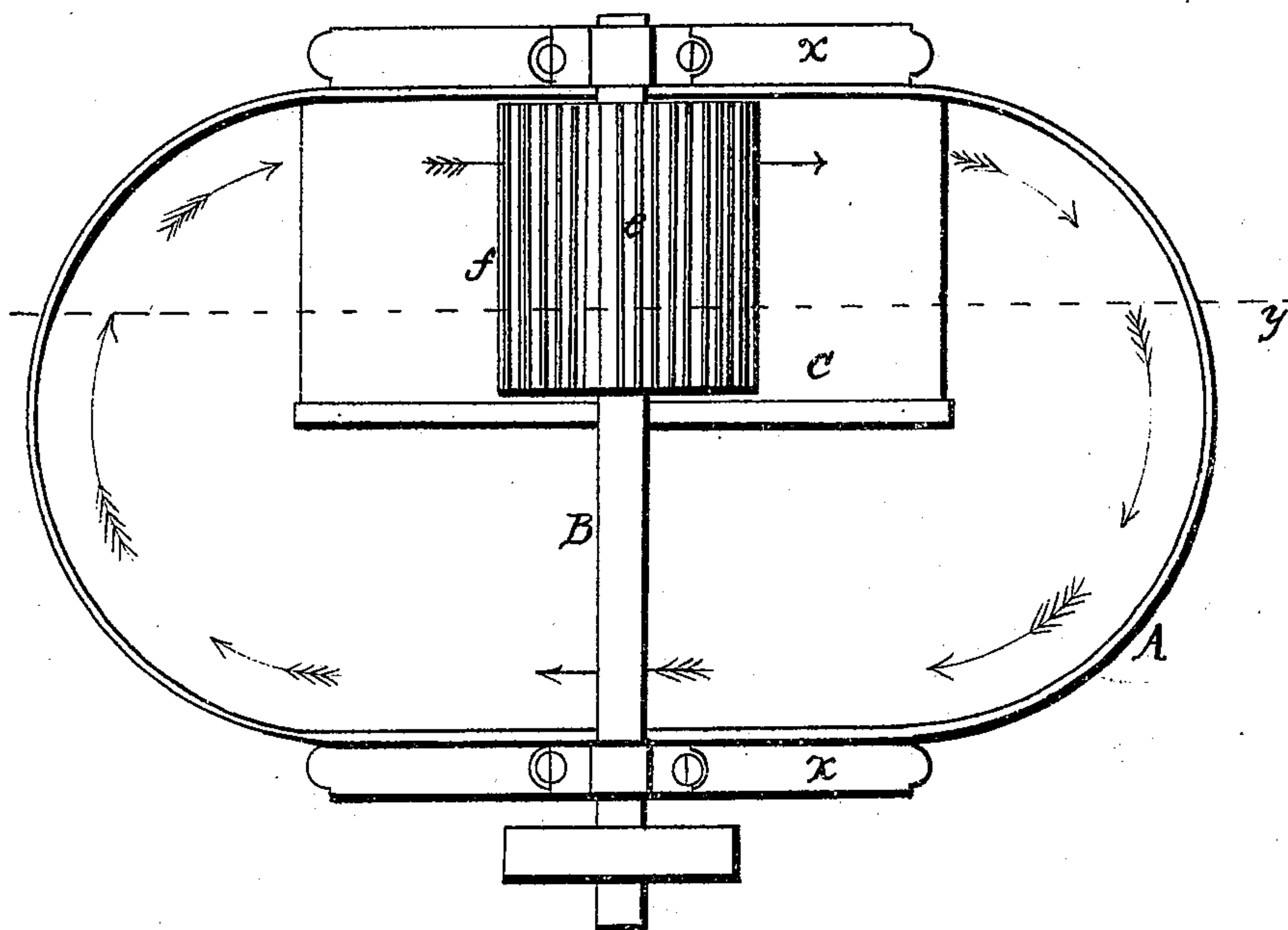
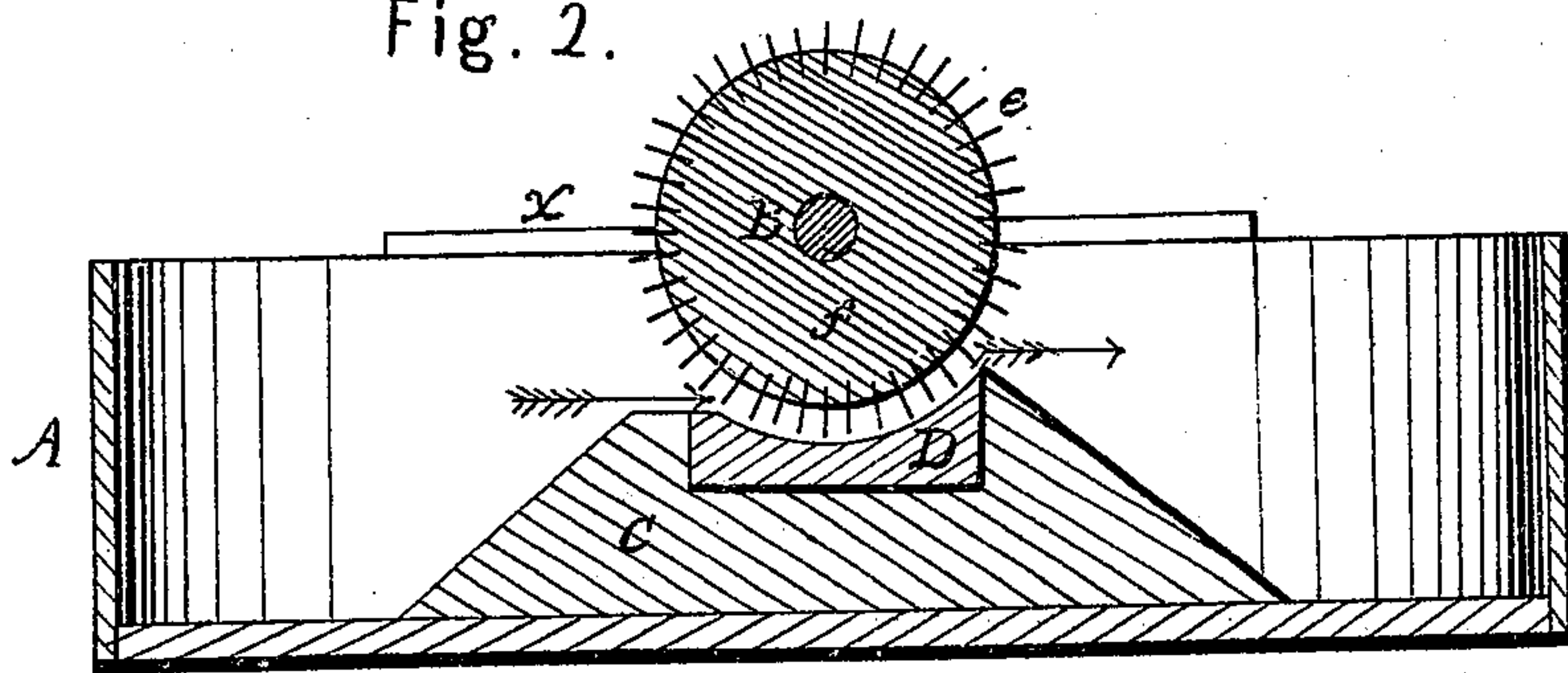


Fig. 2.



Witnesses

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By his attorney A. L. Johnston

United States Patent Office.

WILLIAM PARKISON, OF MONONGAHELA CITY, PENNSYLVANIA.

Letters Patent No. 86,858, dated February 9, 1869.

IMPROVEMENT IN ENGINES FOR MAKING PAPER-PULP.

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, WILLIAM PARKISON, of Monongahela City, in the county of Washington, and State of Pennsylvania, have invented a new and useful Improvement in "Engine for Making Pulp for Paper-Making;" and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing the ordinary pulp-engine, for grinding pulp for paper-making, with a stone base, adapted in form to the cutting-cylinder and its cutters.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification.

Figure 1 is a top view or plan of my improvement in "pulp-engine."

Figure 2 is a longitudinal section of the same, when cut through at line Y.

In the drawings—

A represents an ordinary pulp-tub, provided with the ordinary cutting-cylinder *f*, provided with cutters *e*, said cylinder being placed on a shaft, B, which has its bearings in the timber, X, secured to the sides of the tub A.

The ordinary inclined cutting-block C is provided with a stone block, D, which is fitted into the block C, as shown in fig. 2.

The upper surface of the stone, D, is cut out, so as to conform to the diameter of the cylinder *f* and its cutters *e*, which should have only space enough between them and the stone to pass without rubbing on the stone.

The length of the stone, D, should be the same as that of the cylinder *f*.

The arrows show the course which the material of which the pulp is made travels in the tub A, the material and water being used in the usual manner, and treated and manipulated in the ordinary way, which is well understood by paper manufacturers.

The advantage of the stone, D, consists in its durability, and its grinding and drawing-action in forming the desired fibre in the pulp, when used in connection with the cylinder *f* and its cutters *e*.

Having thus described my improvement,

What I claim as my invention, is—

The stone, D, embedded in the block C, when used in connection with cylinder *f* and cutters *e*, as herein described, and for the purpose set forth.

WM. PARKISON.

Witnesses:

JAMES J. JOHNSTON,
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