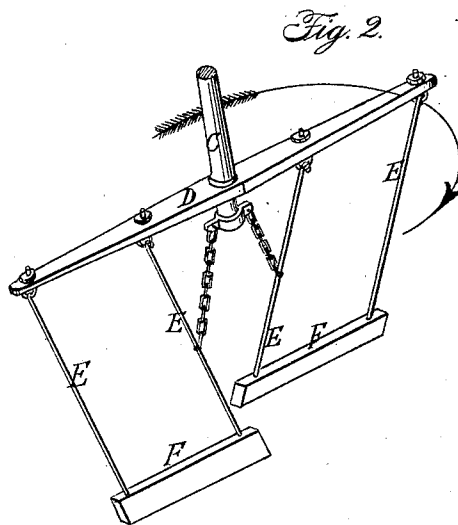
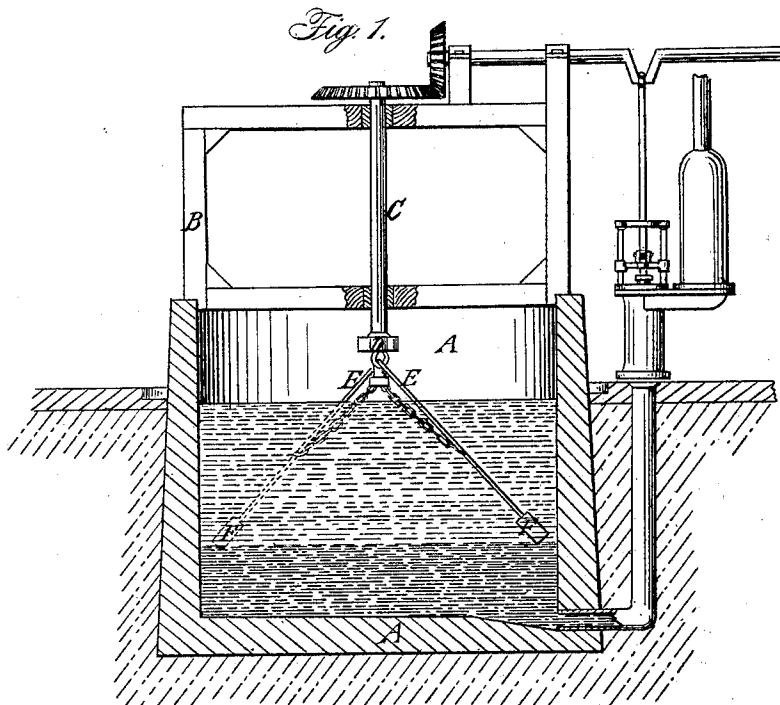


A. ERKENBRECHER.

Starch Agitator.

No. 67,516.

Patented Aug. 6, 1867.



Witnesses:

James H. Lanyon
Samuel H. Lanyon

Inventor.

A. Erkenbrecher
Per *Augustus Mays*

United States Patent Office.

ANDREW ERKENBRECHER; OF CINCINNATI, OHIO.

Letters Patent No. 67,516, dated August 6, 1867.

IMPROVED STARCH-AGITATOR.

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

TO WHOM IT MAY CONCERN:

Be it known that I, ANDREW ERKENBRECHER, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Starch-Agitator; 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.

My invention relates to a form of mechanical agitator for the purpose of stirring or working up starch so as to insure its complete suspension in the water of elutriation.

Figure 1 is an axial section of a vat or cistern provided with my improvement.

Figure 2 is a perspective view of the agitator detached.

A represents a vat or circular cistern. B is a frame affording journal bearing for a shaft, C, coincident with the axis of the cistern. The lower end of the shaft C has a cross-head, D, from which loosely depend rods E, whose lower extremities are armed with bars F, which are dragged, with a scraping action, along the surface of the unliquefied portion of the starch, which is thus gradually worked up into the liquor, without breaking the agitator, which, owing to the solid nature of the starch, would unavoidably occur to teeth or blades projecting rigidly into the body of the starch. As the starch becomes disintegrated, and additional portions of it become taken up by the water, the bars F sink and gradually detach and work up into the liquor the particles beneath, until the entire body of starch is mechanically suspended in the liquor. I thus enable the accomplishment in a few hours, by automatic means, of an object which consumes as many days of severe manual labor with the customary oars or paddles.

I claim herein as new, and of my invention—

The starch-agitator, composed of gravitating bars F, loosely connected to a revolving vertical shaft, substantially as and for the purpose set forth.

In testimony of which invention I hereunto set my hand.

ANDREW ERKENBRECHER.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.