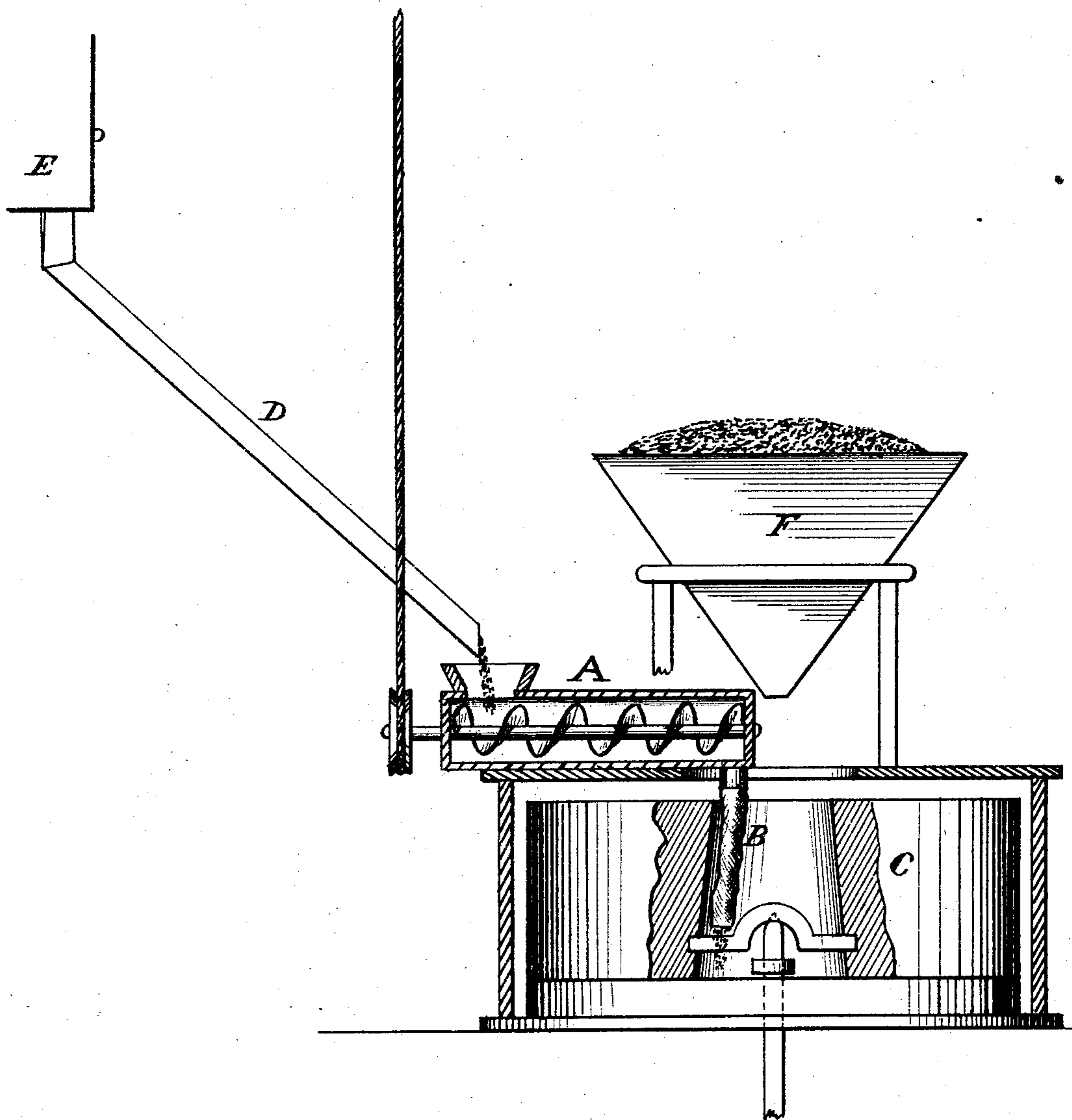


G. S. CRANSON.

Feeding Devices for Grinding-Mills.

No. 153,668.

Patented Aug. 4, 1874.



Witnesses:—

Wm. Robt. Brooks.

Lysander Redfield

Inventor.

Giles S. Cranson.

UNITED STATES PATENT OFFICE.

GILES S. CRANSON, OF PHELPS, NEW YORK.

IMPROVEMENT IN FEEDING DEVICES FOR GRINDING-MILLS.

Specification forming part of Letters Patent No. **153,668**, dated August 4, 1874 ; application filed April 22, 1874.

To all whom it may concern :

Be it known that I, GILES S. CRANSON, of the town of Phelps, county of Ontario, State of New York, have invented an Improvement in Feeding Devices for Grinding-Mills, of which the following is a specification:

The object of my invention is to provide an arrangement of mechanism for the purpose of conveying that product in the manufacture of flour commonly known as "middlings" in a uniform and constant quantity as fast as they are formed from the bolt to the "eye" of the mill, for the purpose of grinding the same in connection with the wheat.

Referring to the drawing belonging to this specification, E represents the end of an ordinary flour-bolt, from which extends the spout D, to conduct the middlings to an auxiliary conveyer, A, fastened to the mill-curb, and driven by a cord or belt from any convenient point. At the end of the auxiliary conveyer is a flexible rubber tube, B, reaching down as far as possible into the eye of the stone. The

object of this tube is to conduct the middlings and discharge them as near as possible to the bottom of the stone, to prevent the accumulation of the same upon the sides of the eye, (being held there by centrifugal motion,) and as will be the case when they are discharged into the eye of the stone from a fixed tube in a slanting position, as is usually arranged. The middlings are in this manner conveyed from the bolt to the eye of the stone, and fed to the same in a uniform and constant quantity.

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

The auxiliary conveyer A and flexible tube B, when arranged in combination with the mill C, spout D, and bolt E, substantially as and for the purpose herein set forth and described.

GILES S. CRANSON.

Witnesses:

WM. ROBT. BROOKS,
A. F. JONES.