

W. C. GRIMES.

Grain Cleaner.

No. 3,197.

Patented July 26, 1843.

Fig. 1

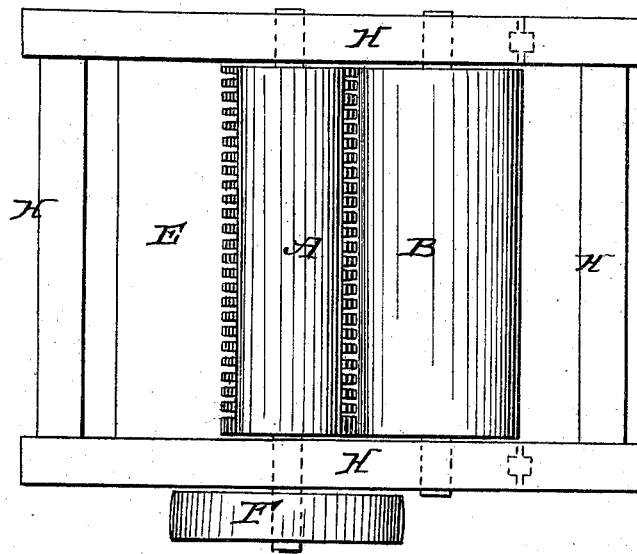


Fig. 2

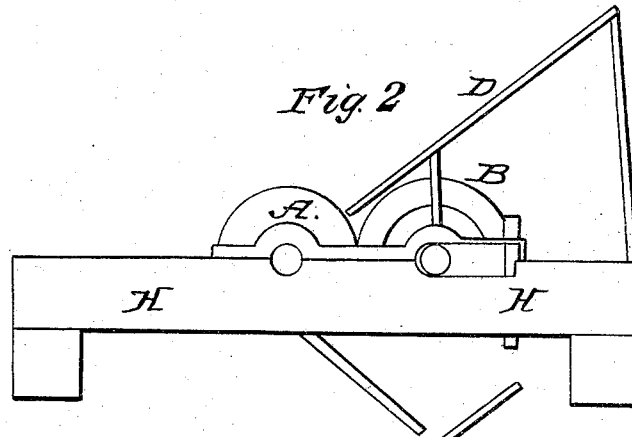
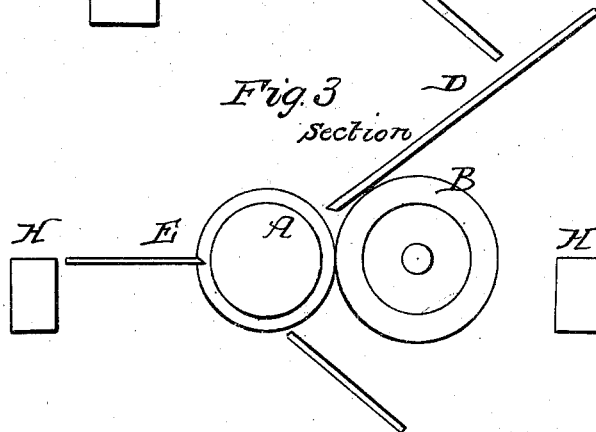


Fig. 3
Section



UNITED STATES PATENT OFFICE.

WM. C. GRIMES, OF YORK, PENNSYLVANIA.

GARLIC-SEPARATOR.

Specification of Letters Patent No. 3,197, dated July 26, 1843.

To all whom it may concern:

Be it known that I, WM. C. GRIMES, of York, in the county of York and State of Pennsylvania, have invented a new and useful Machine for Separating Garlic and other Foreign Matter from Wheat; and I do hereby declare that the following is a full and exact description thereof.

My invention consists in the combination of two rollers, of such form and material as to separate wheat and garlic, when made to pass—as they revolve—in a thin sheet or stream between them. The roller A and B consist: one of metal, and the other—in part—of india rubber, or other elastic material. A series of wedge-shaped grooves *c, c, c,*—too narrow to receive within them a common sized grain of wheat—are turned into and occupy the greater part of the surface of the metallic roller. The axis of the elastic roller, B,—which last may consist of a wooden cylinder covered with india rubber—lies parallel to, and in the same horizontal plane with the axis of the metallic roller. Their surfaces which are in contact, are made to press one against the other with the required degree of force, by means of screws, keys or other device acting upon their bearings.

A broad spout or chute D, of a width corresponding with the length of the rollers, is placed in an inclined position above, and serves to conduct the grain to them.

Upon one side of a metallic plate, E, are formed a series of teeth, I, I, I, which are made to fit into the grooves in the metallic roller on the side opposite to the entrance of the grain.

Operation of the machine.—As the grain &c. falls between the rollers the garlic and aught else much softer than the grain is forced by pressure into the grooves in the metallic roller, and is removed therefrom by the toothed plate or comb, E, while the grain from its superior hardness resists the action of the elastic roller, and immediately falls when released from the pressure thereof.

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

1. The combination of a grooved roller with one formed in part of india rubber or other elastic material and operating as set forth, whether constructed precisely in the manner described or in any other whereby the same result is obtained by analogous means.

2. I also claim the combination of a comb or toothed plate, with the grooved roller, the former being for the purpose of removing the garlic and other foreign matter from the grooves in the latter.

WM. C. GRIMES.

Witnesses:

JACOB BAR,
JACOB C. SLESSUER.