J. F. GENT.

GRAIN-SAMPLER.

No. 185,024. Patented Dec. 5, 1876.

fig. 1.

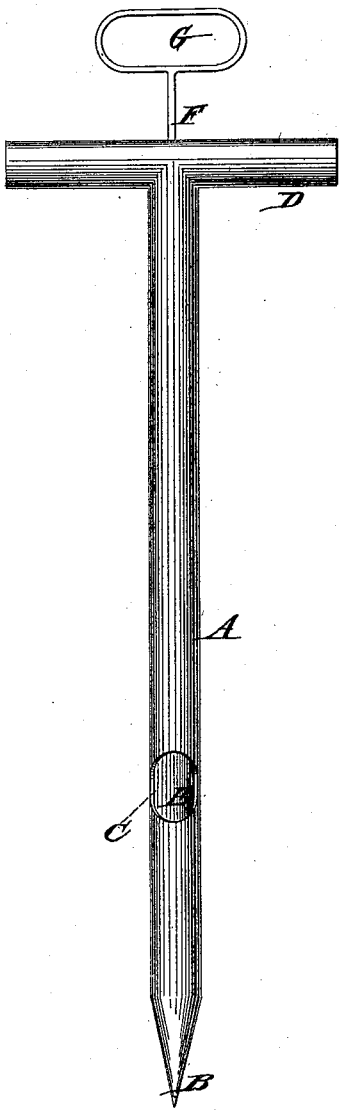
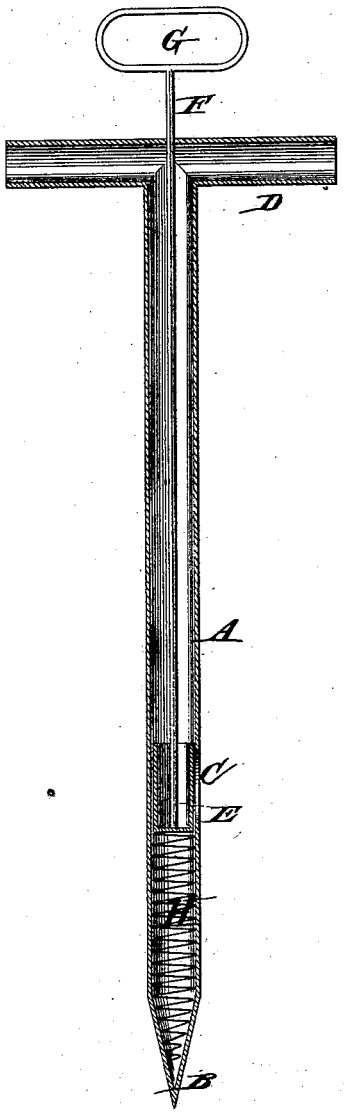


fig. 2.



WITNESSES:

Gustavo Dituncle

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INVENTOR:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH F. GENT, OF COLUMBUS, INDIANA, ASSIGNOR TO HIMSELF AND RICHARD THOMAS, OF SAME PLACE.

IMPROVEMENT IN GRAIN-SAMPLERS.

Specification forming part of Letters Patent No. **185,024**, dated December 5, 1876; application filed October 14, 1876.

To all whom it may concern:

Be it known that I, JOSEPH F. GENT, of Columbus, in the county of Bartholomew and State of Indiana, have invented a new and Improved Grain-Sampler, of which the following is a specification:

Figure 1 is a side elevation. Fig. 2 is a central longitudinal section.

Similar letters of reference indicate corresponding parts.

My invention relates to a device for sampling grain in bags or in bulk; and it consists of a tube closed at one end, coned or pointed, and provided with an aperture in one side near the coned end. The other end of the said tube is connected with a cross pipe or handle. A cup or valve capable of closing the aperture in the side of the tube is placed in the tube, and may be moved by a rod which is attached to it and runs out through the tubular handle. A spiral spring resting in the coned end of the tube returns the valve to its normal position.

The object of my invention is to provide an instrument by means of which a sample may be obtained from the inner portion of a quantity of grain in bulk or in bags.

A is a tube, which is coned or pointed at B, and is provided with the aperture C in one side, near the coned end. A tubular handle, D, is attached at right angles to the tube A, at the end opposite the coned end. E is a cup or valve, which is fitted to the tube A, and is capable of closing the aperture C. A rod, F, is centrally attached to the valve E, and runs through the handle D, and is provided with a handle, G. A coil-spring, H, is placed in the tube A, between the coned end and the valve E, for closing the said valve.

When a sample from the interior of a body of grain is required, the tube A is forced into the grain as far as may be desired, when the valve E is pushed back, opening the aperture C, allowing the grain to run into and partially fill the tube A. The rod F being released, the spring H returns the valve to its normal position. The instrument is removed from the bulk of the grain, and the contained sample is poured through either arm of the tubular handle.

The conical end permits the insertion of the tube in bags by displacing the meshes of the material of the bag as the tube is forced in.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the tube A, having the conical end B, and the aperture C, the valve E, spring H, rod F, and tubular handle D, substantially as herein shown and described.

JOSEPH FRANKLIN GENT.

Witnesses:

CHAS. HAMILTON,

J. A. TROTTER.