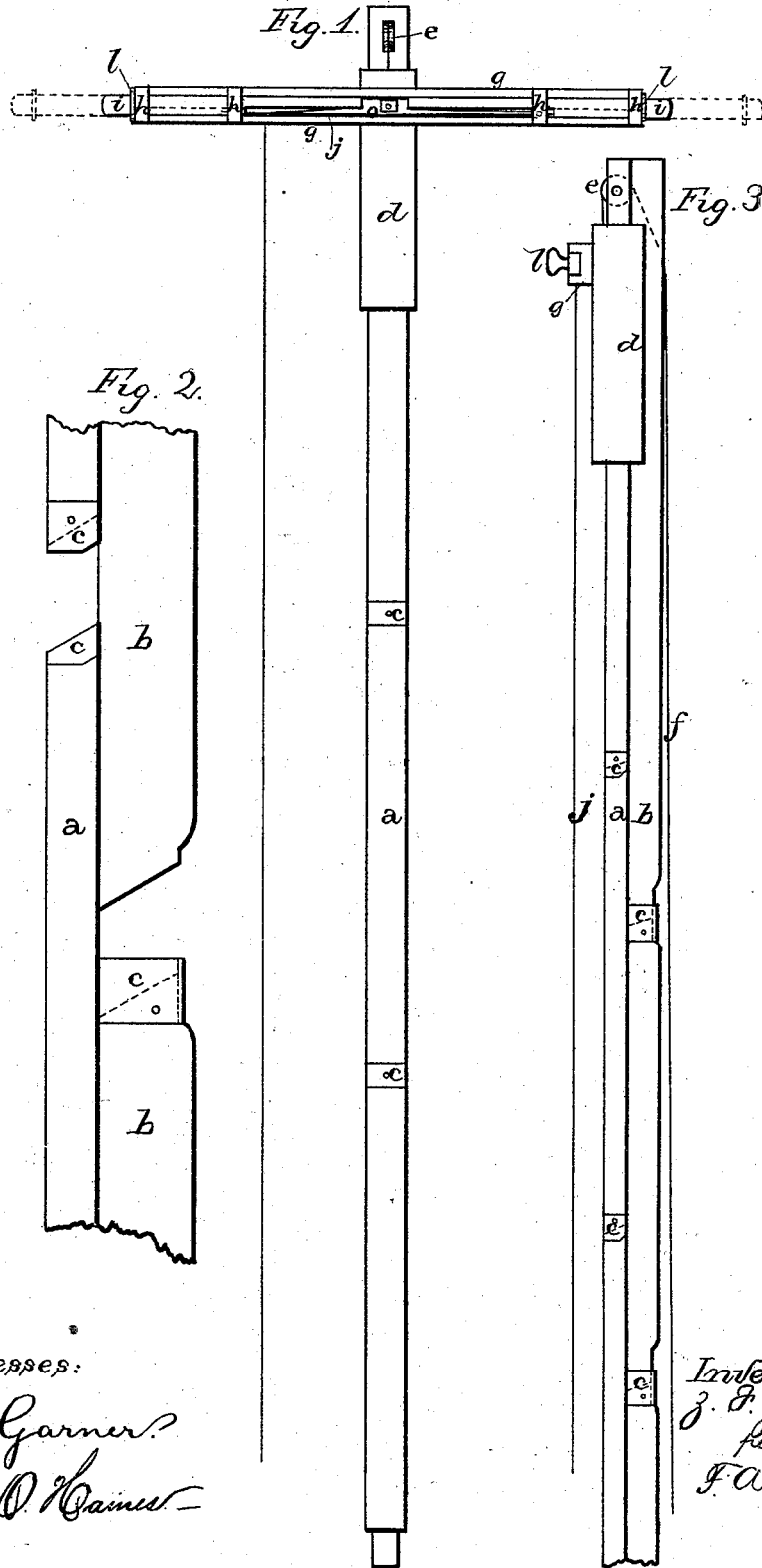


Z. F. JONES.
Tobacco-Elevator.
No. 215,365. Patented May 13, 1879.



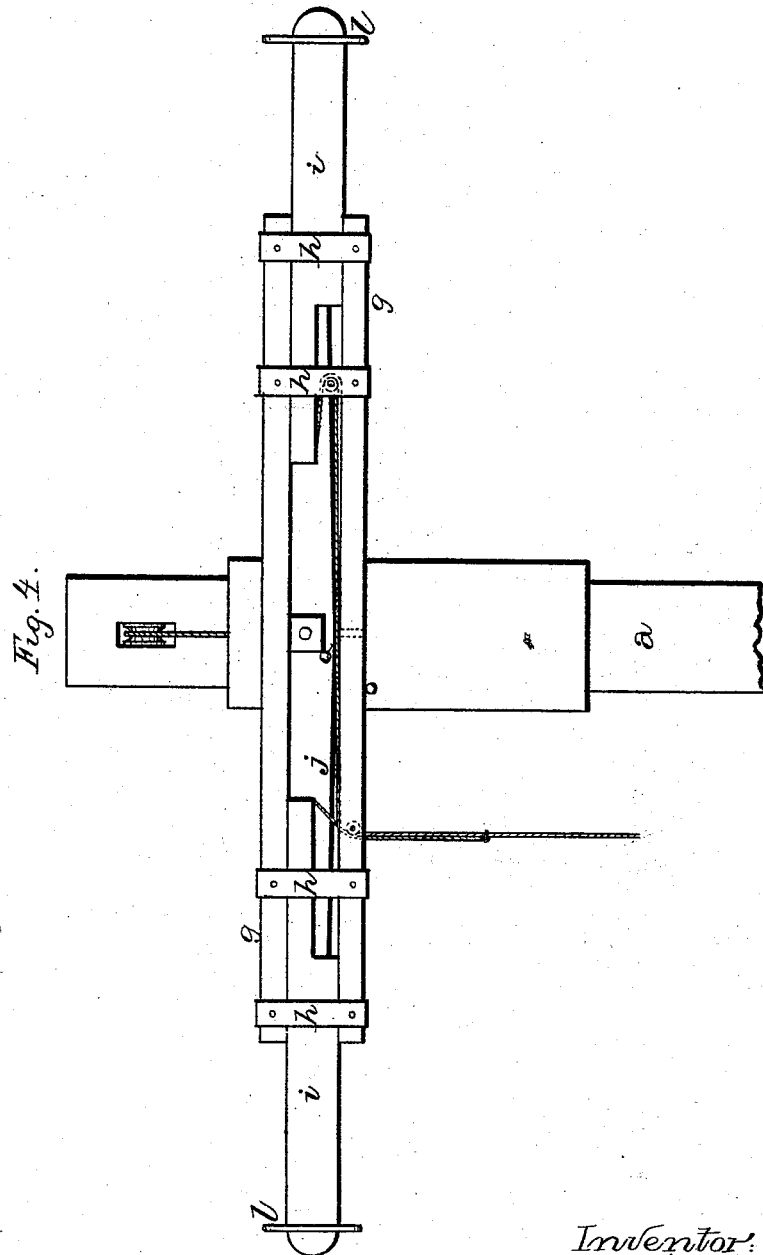
Witnesses:
J. W. Garner?
A. S. D. Garner—

Inventor:
Z. F. Jones.
Per
F. A. Lehmann
att.

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Witnesses:

J. W. Garner
H. S. D. Haines.

Inventor:

Z. F. Jones
per
F. A. Lehmann,
att'y.

UNITED STATES PATENT OFFICE.

ZACHARIAH F. JONES, OF SCOTTSVILLE, VIRGINIA.

IMPROVEMENT IN TOBACCO-ELEVATORS.

Specification forming part of Letters Patent No. **215,365**, dated May 13, 1879; application filed March 4, 1879.

To all whom it may concern:

Be it known that I, ZACHARIAH F. JONES, of Scottsville, in the county of Albemarle and State of Virginia, have invented certain new and useful Improvements in Tobacco-Elevators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in tobacco-elevators; and it consists in the arrangement and combination of parts that will be more fully described hereinafter, whereby an apparatus is produced by means of which tobacco can be elevated to the top of the building, and then taken down again, by a person standing on the floor.

Figure 1 is a front elevation of my invention complete. Figs. 2 and 4 are detail views, and Fig. 3 a side elevation, of the same.

a represents a rod or pole long enough to reach from the ground floor to the highest tiers in the drying-house, and which is made in sections, for convenience in using it to raise tobacco to different heights for packing away when no longer needed for use and for transportation. This rod or pole is made flat and in sections, and each section has secured to its rear side a brace, *b*, which extends at right angles to the rod or pole, so as to strengthen it, and not only keep it from breaking, but from bending while in use. As this rod or pole and all its appliances have constantly to be lifted by the operator, and as the pole is usually made about twenty-two feet long, it will readily be seen that it must be made as light as is consistent with the necessary strength, and this is attained by the use of a brace on the rear side of the pole.

The pieces of the brace are secured to the parts of the pole so that they project considerably below the joints, and thus the joints are broken, as shown in Fig. 2, so that the brace supports the joints as well as at any other part.

In forming the joints, the ends of the pieces of the pole and the ends of the parts of the brace are beveled, as shown, and a metallic socket, *c*, is provided to receive them, which sockets bind the ends securely together.

Sliding back and forth on the pole is the carriage *d*, which is operated by means of the

rope *f*, which passes up over the pulley *e* in the upper end of the top section of the pole and back down to the operator's hand. Pivoted to this carriage is the cross-head *g*, which may either be plain or grooved on its front side, and provided with the extension-arms *i*, as here shown. These arms are held in position by means of the straps *h*, and are connected together by means of a suitable spring, *o*. To these two arms are secured cords or wires *j*, by means of which the operator can force the arms outward, as shown by dotted lines in Fig. 1, for the purpose of causing the regulators *l* to catch on the outside of the tobacco as it hangs on its stick across the tiers and gently compress it, so that the regulators can be raised upward between the tiers and the tobacco, so as to catch under the stick.

These regulators are made preferably of the shape shown in Fig. 3, and serve not only to support the stick of tobacco as it is being raised and lowered, but also serve to regulate the distance between the sticks as they hang upon the tiers.

Where hooks are used, as is generally the case, for raising and lowering the sticks, they constantly punch holes through the tobacco, and thus spoil it, and cannot be used as regulators.

This elevator is specially designed to work from the floor; but, if so desired, it may be suspended from the tier-poles by means of a T-head.

Having thus described my invention, I claim—

1. In a tobacco-elevator, the pole *a*, made in sections, and provided with the brace *b*, extending at right angles thereto, substantially as shown.

2. In a tobacco-elevator, the pole *a*, made in sections, and strengthened by the brace *b*, the ends of the braces being made to project down below the joints of the pole *a*, substantially as described.

3. In a tobacco-elevator, the cross-head *g*, having the extensible arms *i*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of March, 1879.

ZACHARIAH F. JONES.

Witnesses:

J. W. GARNER,

W. S. D. HAINES.