

(No Model.)

J. U. ALLPHIN.
TOBACCO ELEVATOR.

No. 535,476.

Patented Mar. 12, 1895.

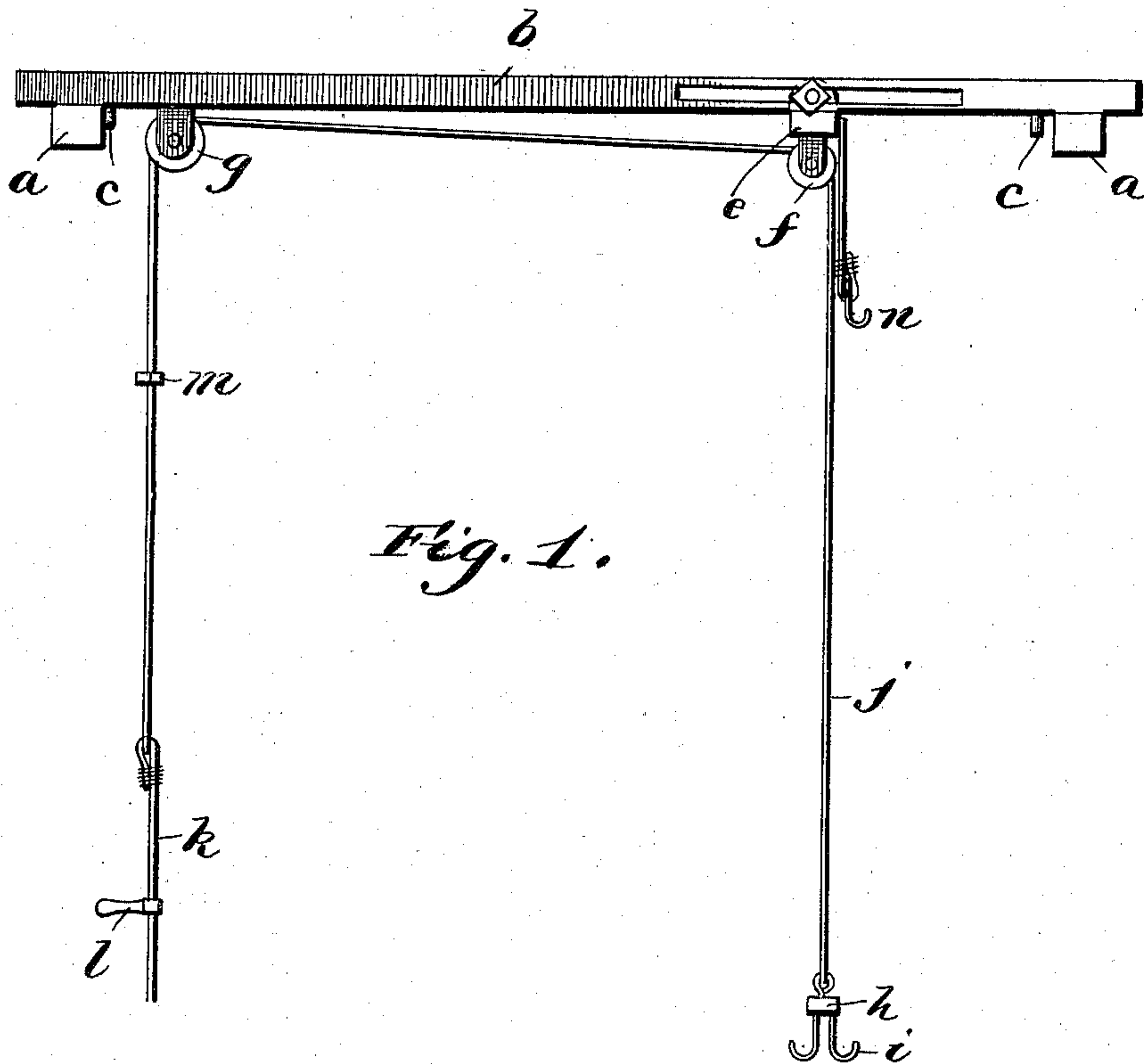


Fig. 1.

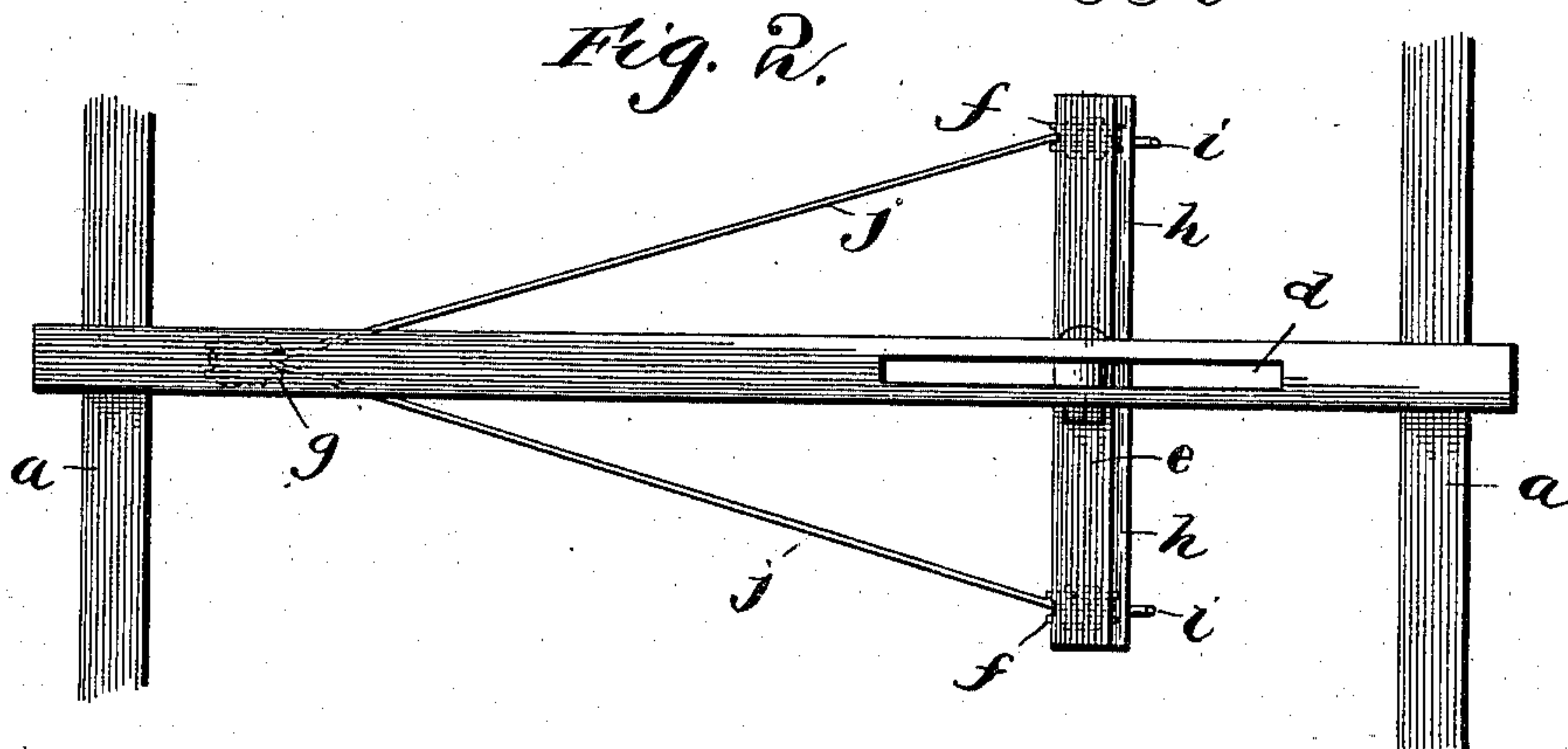


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN U. ALLPHIN, OF KEY WEST, KENTUCKY.

TOBACCO-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 535,476, dated March 12, 1895.

Application filed June 15, 1894. Serial No. 514,635. (No model.)

To all whom it may concern:

Be it known that I, JOHN U. ALLPHIN, a citizen of the United States of America, residing at Key West, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Tobacco-Elevators, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in tobacco elevators.

The object of the invention is to provide an improved tobacco elevator exceedingly cheap, simple and durable in construction, and composed of a minimum number of parts and which can be economically constructed and sold complete at a low price, and easily and quickly set up in any barn to elevate or lower the tobacco leaves from the top thereof as usual in drying tobacco leaves.

The invention consists in certain novel features of construction and in combinations of parts more fully and particularly described and pointed out hereinafter.

Referring to the accompanying drawings:— Figure 1 is a side elevation of the improved elevator in position for operation on the rafters or beams of the barn, and with the hooks lowered. Fig. 2 is a top plan view thereof.

In the drawings *a, a*, are the rafters or cross beams of the barn on which the present device is supported to carry the tobacco leaves to and fro between the barn floor and the elevated part where the tobacco is hung for drying purposes.

b, is the supporting frame of the elevator, here shown, as a beam extending transversely between and resting on two of the rafters and provided with one or more stops or pins *c*, on the under edge of one or both of said rafters said pins preventing the beam from sliding off the rafters. This beam also has an elongated longitudinal guide or slot *d*, in its central portion so that the cross bar *e*, carried by the beam *b*, and forming a part of the supporting frame, can be adjusted longitudinally of the said beam to the point desired between the rafters most convenient for the manipulations of the parts by the operators. This cross bar *e*, can be secured to the beam *b*, in any suitable and desirable manner so as to permit the adjustment longitudinally thereof.

f, f, are pulleys depending from the ends of the cross-bar. *g*, is a double pulley depending from one end of the main supporting beam.

h, is the elevator composed of a frame, as a beam or bar of about the same length as bar *e*, provided with the depending hooks *i*, to carry the tobacco sticks with their bunches of leaves.

j, j, are two ropes of a suitable length for the particular purpose and the distance from the barn floor to the tobacco loft. The lower ends of the rope are secured, respectively, to opposite ends of the elevator bar and from thence pass up over their respective pulleys *f, f*, and horizontally to and over the pulley *g*, and from thence downwardly to the single depending rope *k*. This rope *k*, hangs down to the barn floor or to any point from which the device is to be elevated and is provided with a handle *l* whereby the rope can be easily drawn to elevate or control the elevator bar. This handle can be suitably clamped on the rope. The ropes *j, j*, are also provided with stop *m*, arranged to engage the double pulley and the supporting beam and limit the downward movement of the elevator bar. This stop can consist of a pair of blocks perforated to receive the two ropes and then clamped together so as to be adjustable thereon.

The cross bar *e*, can be provided with a depending hook *n*, to support the elevator bar when elevated if desired.

It will be observed that the device is composed of a small number of parts that can be easily and economically made and adjusted properly in any barn or building adapted for the purpose.

The operation of the device is obvious without further specific explanation.

I do not wish to limit myself specifically as various changes can be made in details and arrangements of parts.

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

1. The combination of the supporting beam, the cross bar supported on said beam between its ends, pulleys supported at the ends of said cross bar, a pulley depending from one end of the beam, the elevator bar, two ropes secured to the ends of the elevator bar and passing over said bar and beam pulleys,

and a stop on the depending free ends of the ropes, substantially as described.

2. The combination of a removable supporting beam adapted to rest on rafters, the
5 cross bar supported by and longitudinally adjustable on the beam end pulleys on said cross bar, a pulley on the beam, the supporting ropes passing over said pulleys with the two ends depending from the bar, and the
10 elevator bar provided with the hooks and secured to the ends of the ropes, substantially as described.

3. The portable tobacco elevator comprising the beam having the longitudinal slot, a

depending pulley near one end, the cross bar 15 adjustable by said slot having the end pulleys and a hook, the elevator bar, the two ropes secured to the ends of the elevator bar and passed over said pulleys and at their free ends provided with a handle and an adjustable 20 stop, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN U. ALLPHIN.

Witnesses:

L. S. WOLFE,

W. H. FRAKEY.