

(No Model.)

3 Sheets—Sheet 1.

J. FAHRNEY.

STRAW CARRIER AND SHAKER FOR THRASHING MACHINES.

No. 254,810.

Patented Mar. 14, 1882.

Fig. 1.

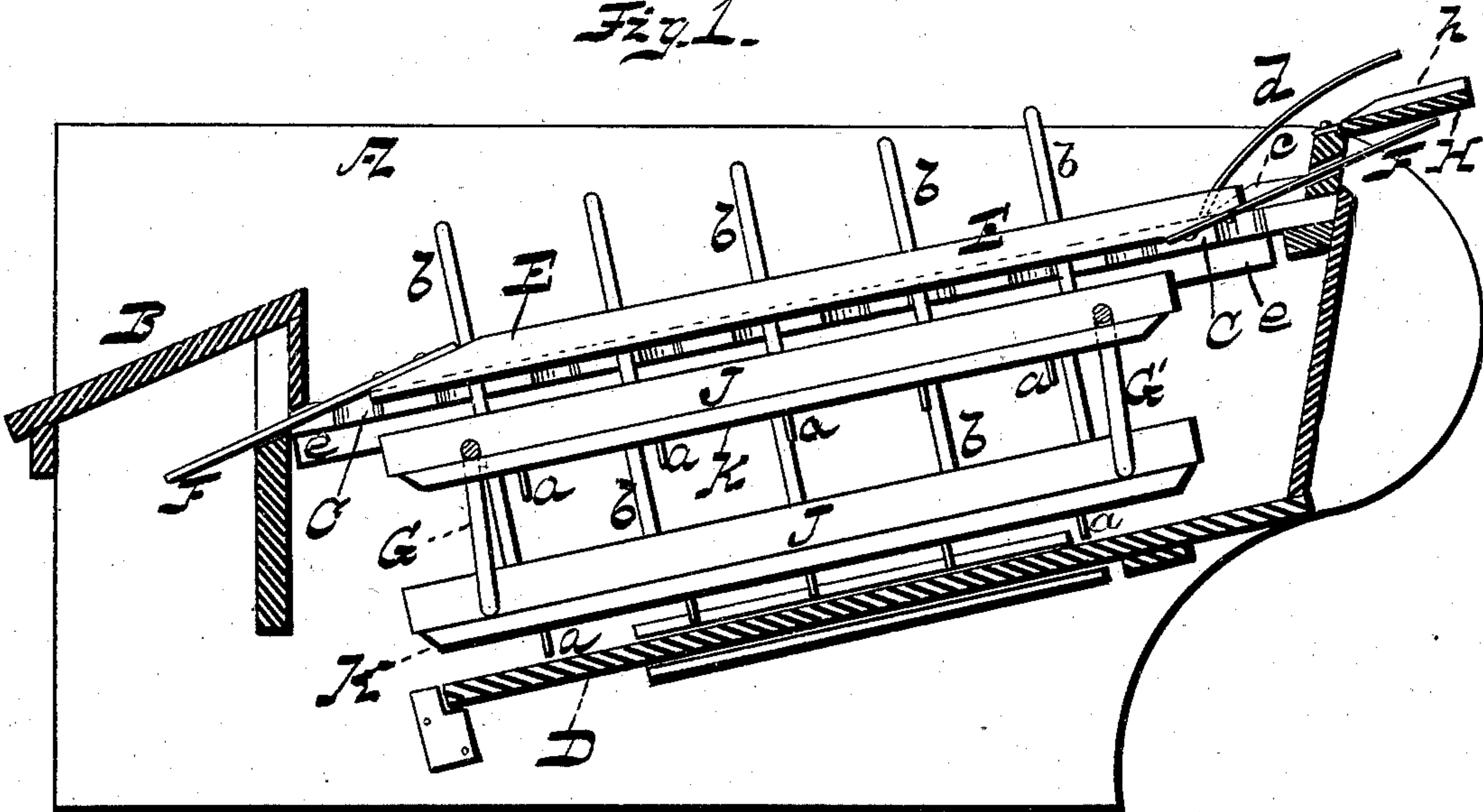
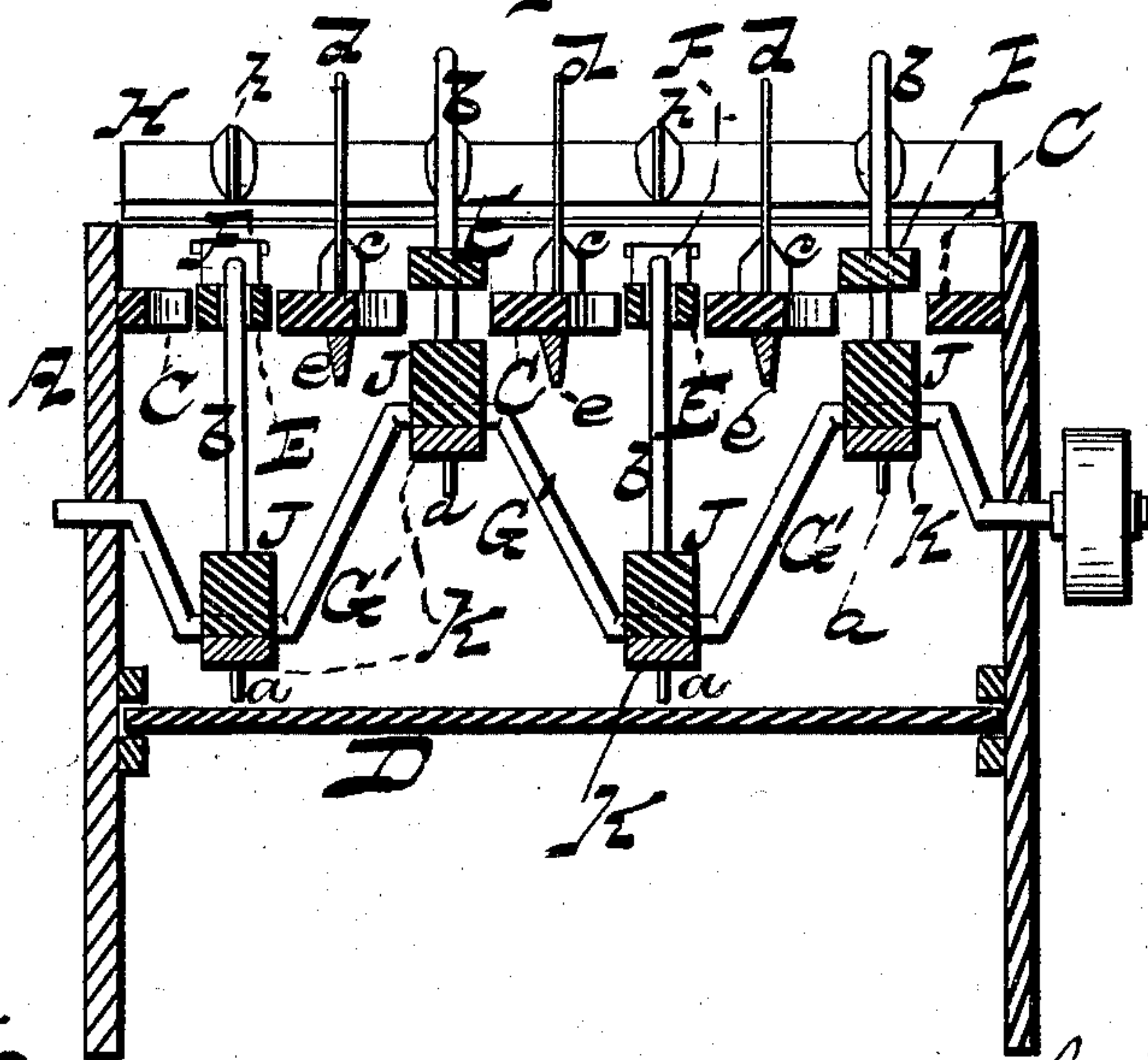


Fig. 2.



Witnesses
C. E. Griffin
L. M. Bates,

Inventor
Josiah Fahrney.
By Wm. H. Bates & Co.
his Attorneys.

(No Model.)

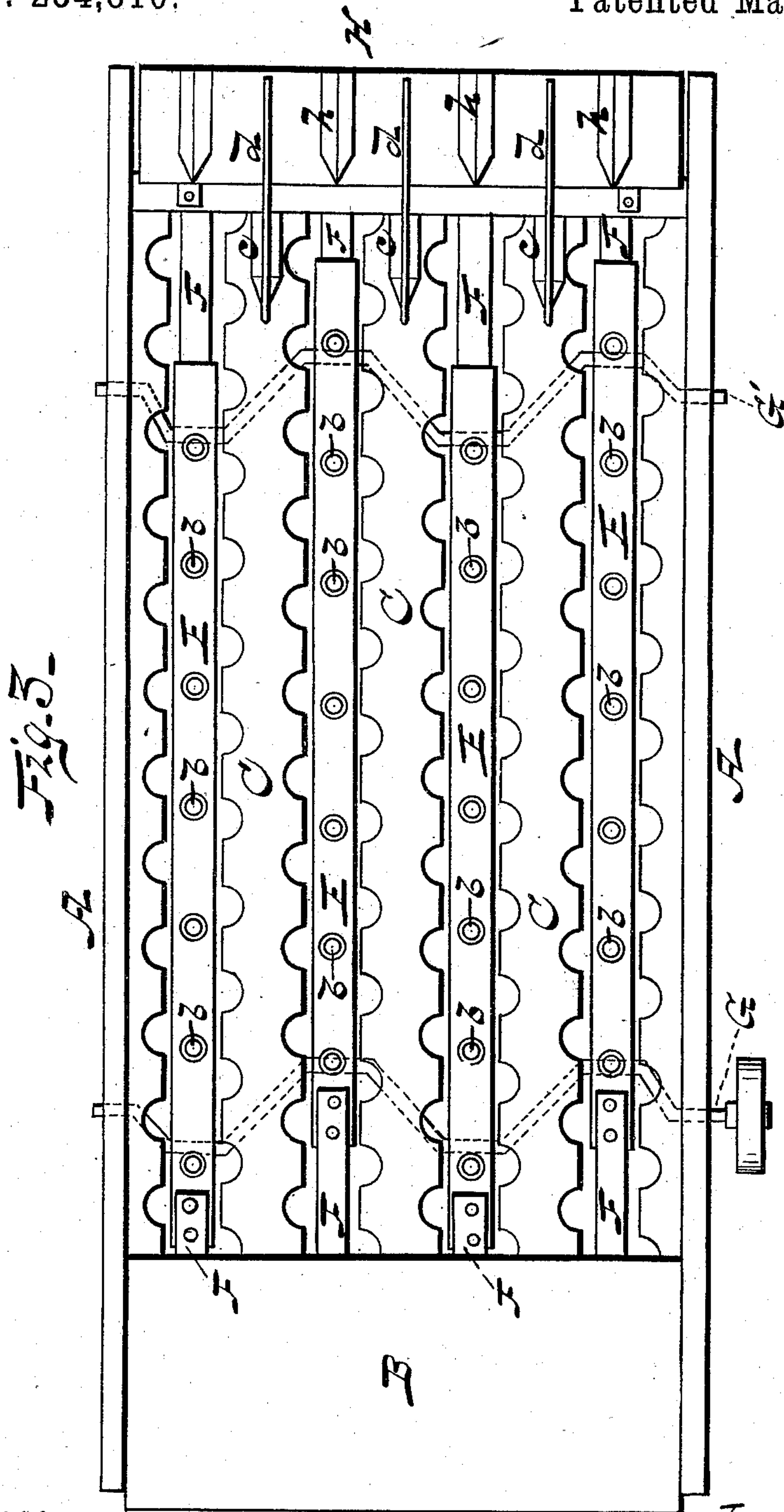
3 Sheets—Sheet 2

J. FAHRNEY.

STRAW CARRIER AND SHAKER FOR THRASHING MACHINES.

No. 254,810.

Patented Mar. 14, 1882.



Witnesses.
G. O. Griffin
L. M. Bates

Inventor.
Josiah Fahrney.
By Wm. H. Bates & Co.,
his Attorneys.

(No Model.)

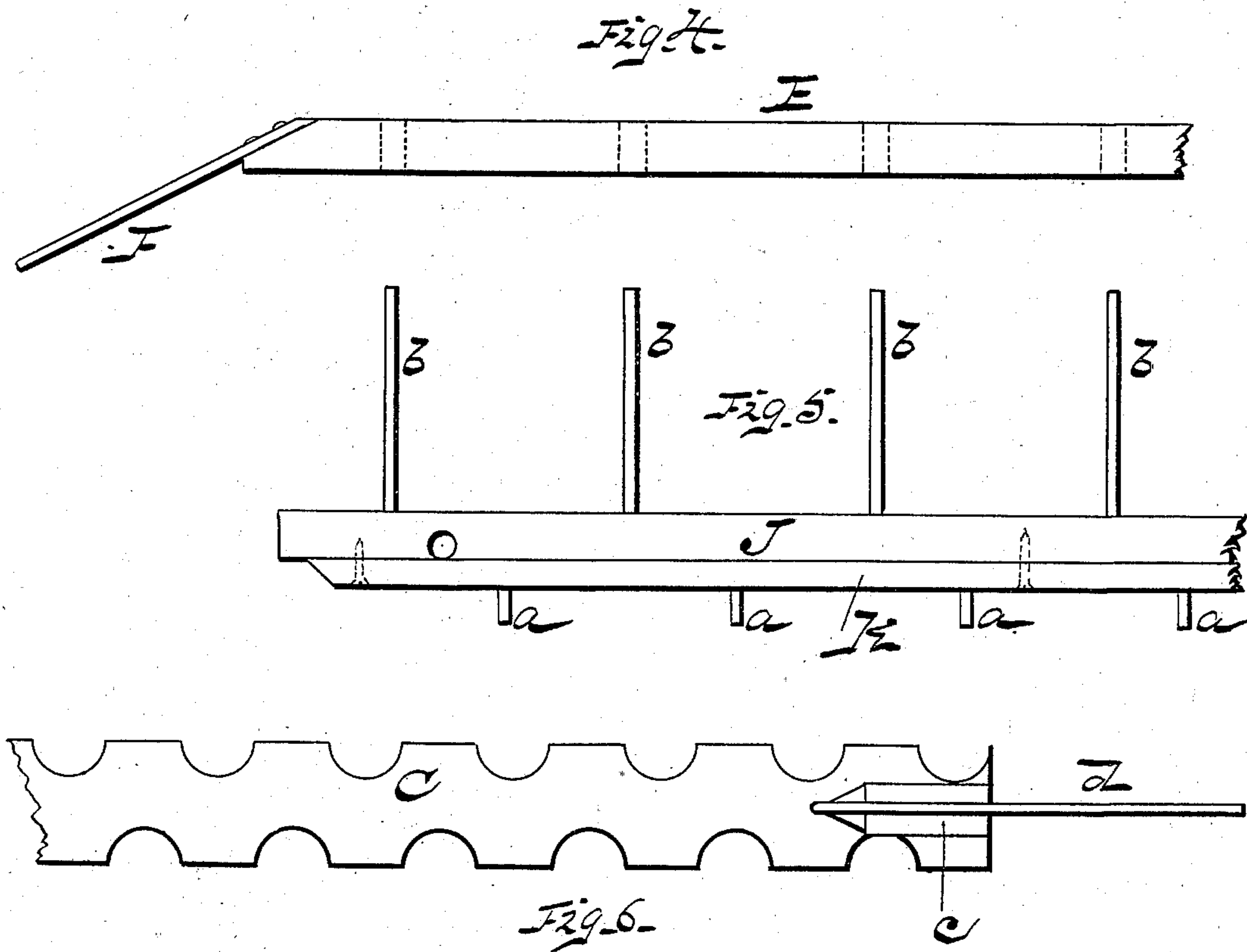
3 Sheets—Sheet 3.

J. FAHRNEY.

STRAW CARRIER AND SHAKER FOR THRASHING MACHINES.

No. 254,810.

Patented Mar. 14, 1882.



Witnesses.
C. E. Infflin
L. M. Bates.

Inventor.
Josiah Fahrney.
By Wm. H. Bates & Co.
his Attorneys.

UNITED STATES PATENT OFFICE.

JOSIAH FAHRNEY, OF WAYNESBOROUGH, PENNSYLVANIA.

STRAW CARRIER AND SHAKER FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 254,810, dated March 14, 1882.

Application filed January 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH FAHRNEY, a citizen of the United States of America, residing at Waynesborough, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Straw Carriers and Shakers for Thrashing-Machines; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to shakers and straw-carriers which are applicable to thrashing-machines and separators. The following description of my invention, when taken in connection with the annexed drawings, will enable others skilled in the art to fully understand it.

In the drawings hereto annexed, Figure 1 represents a vertical sectional view through that portion of the separator which shows my improvement. Fig. 2 represents a cross-sectional view of the same. Fig. 3 represents a top or plan view, and Figs. 4, 5, and 6 are detail views.

As my invention has reference only to the tail of a grain thrasher and separator of the ordinary or well-known construction, I shall confine my description to such part.

A designates the frame or housing, and B the guide-board leading to the shaker and carrier. Between this guide-board and a transverse connecting-support for the cheeks of the housing I secure equidistantly from each other bars C, arranged in a plane inclining toward the thrashing-cylinder, which I have not shown. The bars are made by boring holes through a plank and then sawing the plank into strips, the kerf cutting diametrically through the holes. I thus leave openings for the passage of grain and short stuff through the inclined carrier, which will be received on the inclined board D and carried back, with the aid of the pins *a*, for separation.

Between my new scalloped bars C, I arrange bars E, which receive endwise movement, and also vertical bodily movement, for the purpose of giving a quick upward thrust to the straw

and at the same time an impulse upward and toward the tail of the machine. Both ends of each bar E have sliding strips F fixed to them, which are suitably guided. These strips, which may be made flexible, prevent the bars from binding and afford elasticity to the same, and at the same time admit of the use of the carrier-pins, which I will now describe.

G G' designate cranked shafts which have many throws, and to the cranks of these shafts bars J are applied by means of caps K, into which pins or studs *a* are fixed, protruding from the edges of the bars above the inclined board D, which, with the assistance of these pins, carries back the grain and short straws, to be separated in any well-known manner.

H indicates a retaining-board hinged at the tail end of the carrier, and provided on its upper face with beveled ridges *h*, for carrying off the straw and what grain that may reach the same, to be carried back to the shaker.

To the under side of my new scalloped bars E, I secure strips *e* for the purpose of strengthening said bars.

To the bars J, I suitably fix, at even distances apart, rake-teeth *b*, which extend upward and have free play through holes made through the bars E.

It will thus be seen by the above description that the bed of my improved straw-carrier and grain-separator is composed of rigidly-fixed scalloped bars and intermediate longitudinally and vertically movable bars, which alternate in their upward and downward movements with respect to each other, controlled by the arrangement or throw of their cranks, and give progressive tossing movement to the straw, so as to shake from it the grains which remain in it when delivered upon the shaker.

At the upper ends of the scalloped bars E, I secure beveled ridges *c*, which are inclined and directed upwardly, and immediately in rear of these ridged guides for the straw I fix wires *d*, which form bridges for the straw on its way from the carrier-bed at the tail thereof. The curved wires *d* are rigidly secured at their rear ends to the upper ends of the scalloped bars C, for the purpose of guiding or bridging the straw from the carrier-bed over the space left between the upper ends of said bars and the hinged edge of the board H and delivering

the straw upon this board. This construction is clearly shown in Figs. 1 and 3.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, 5 is—

1. An inclined straw-shaker bed consisting of fixed scalloped bars, intermediate vertically and longitudinally reciprocating bars, carrying teeth vertically movable through the latter, and ribbed inclined guides at the upper or 10 tail ends of the fixed or scalloped bars, substantially as described.

2. In a straw-shaker, the combination of the fixed scalloped bars, the intermediate endwise- 15 reciprocating bodily-moving bars, cranks for operating said bars, and the raking-teeth *b*, vertically movable through the reciprocating bars by means substantially as described.

3. The combination of the wire bridges *d*, the scalloped fixed bars *C*, to which these 20 bridges are secured, the endwise and vertically movable bars *J*, rake-teeth *b*, mounted thereon, and the bars *E*, substantially as described.

4. The combination of the board *H*, provided 25 with ribs *h*, the scalloped bars *C*, the bridge-wires *d*, extending from these bars over the said board *H*, the guide-bars *E*, and raking-teeth *b*, operating substantially as described.

In testimony whereof I affix my signature in 30 presence of two witnesses.

JOSIAH FAHRNEY.

Witnesses:

D. M. GOOD, Jr.,
D. C. UNGER.