

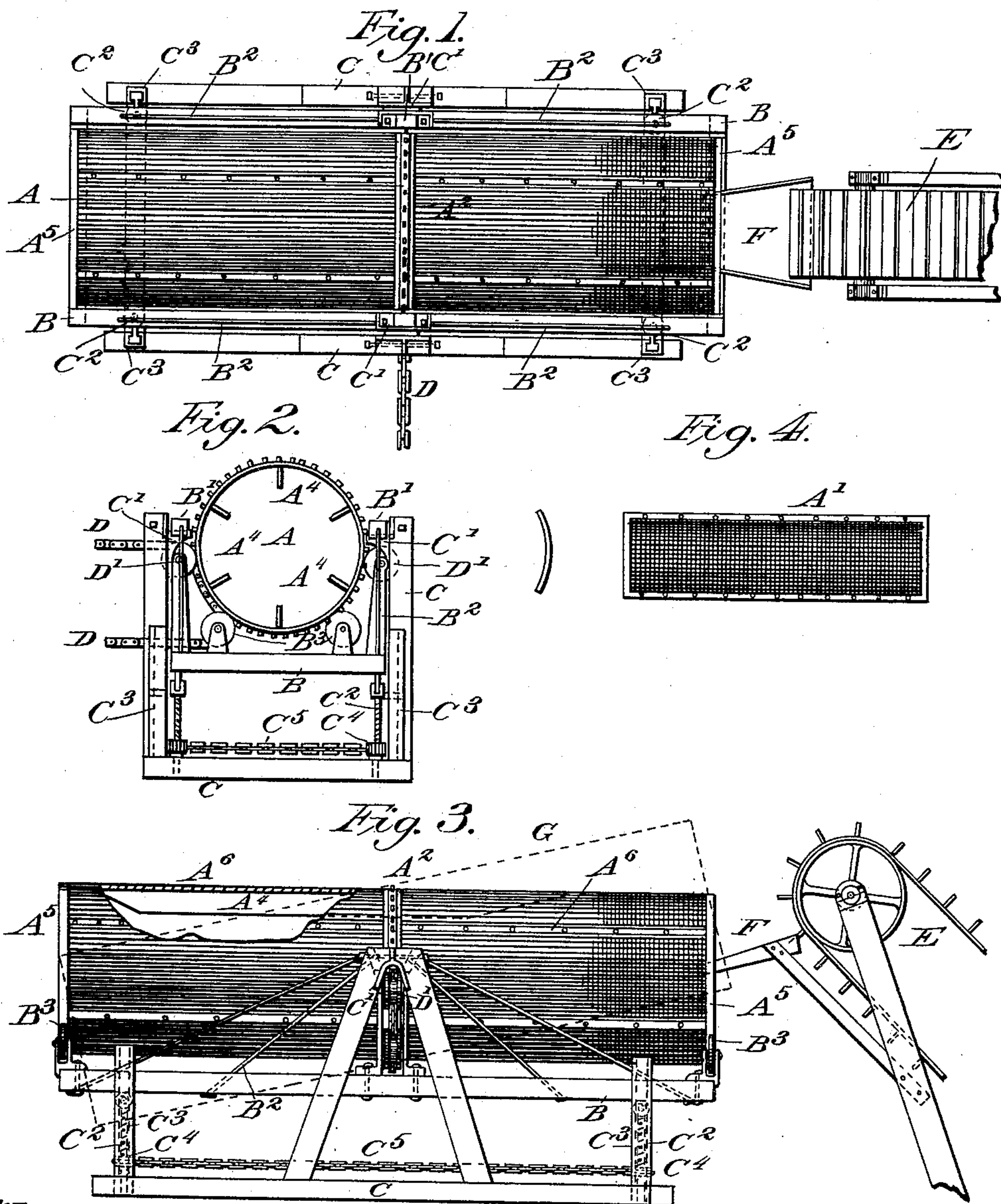
(No Model.)

2 Sheets—Sheet 1.

A. VIVARTTAS.
ADJUSTABLE SCREEN.

No. 393,944.

Patented Dec. 4, 1888.



Witnesses:

J. S. Bundick,
Atty. O. Vivarttas.

Inventor:

Aloha Vivarttas.

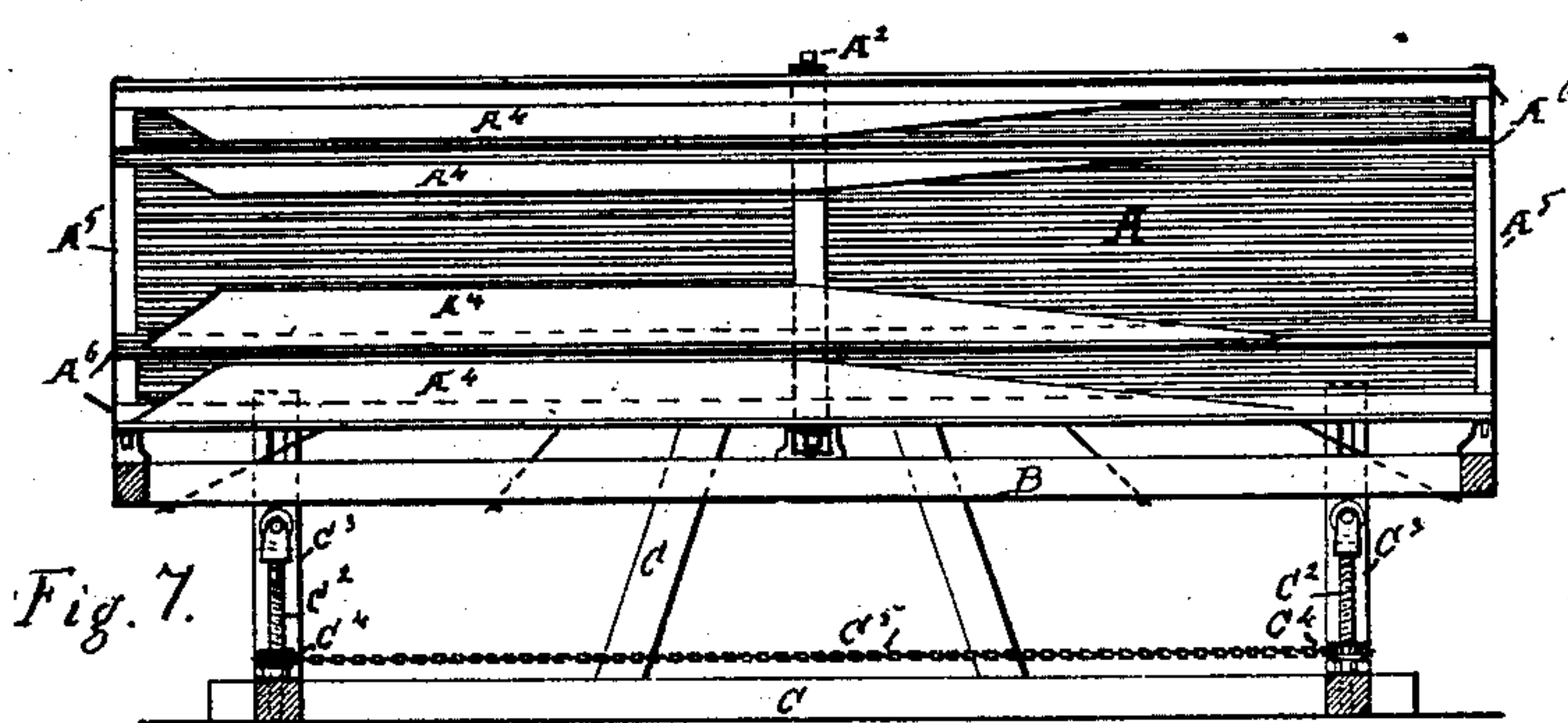
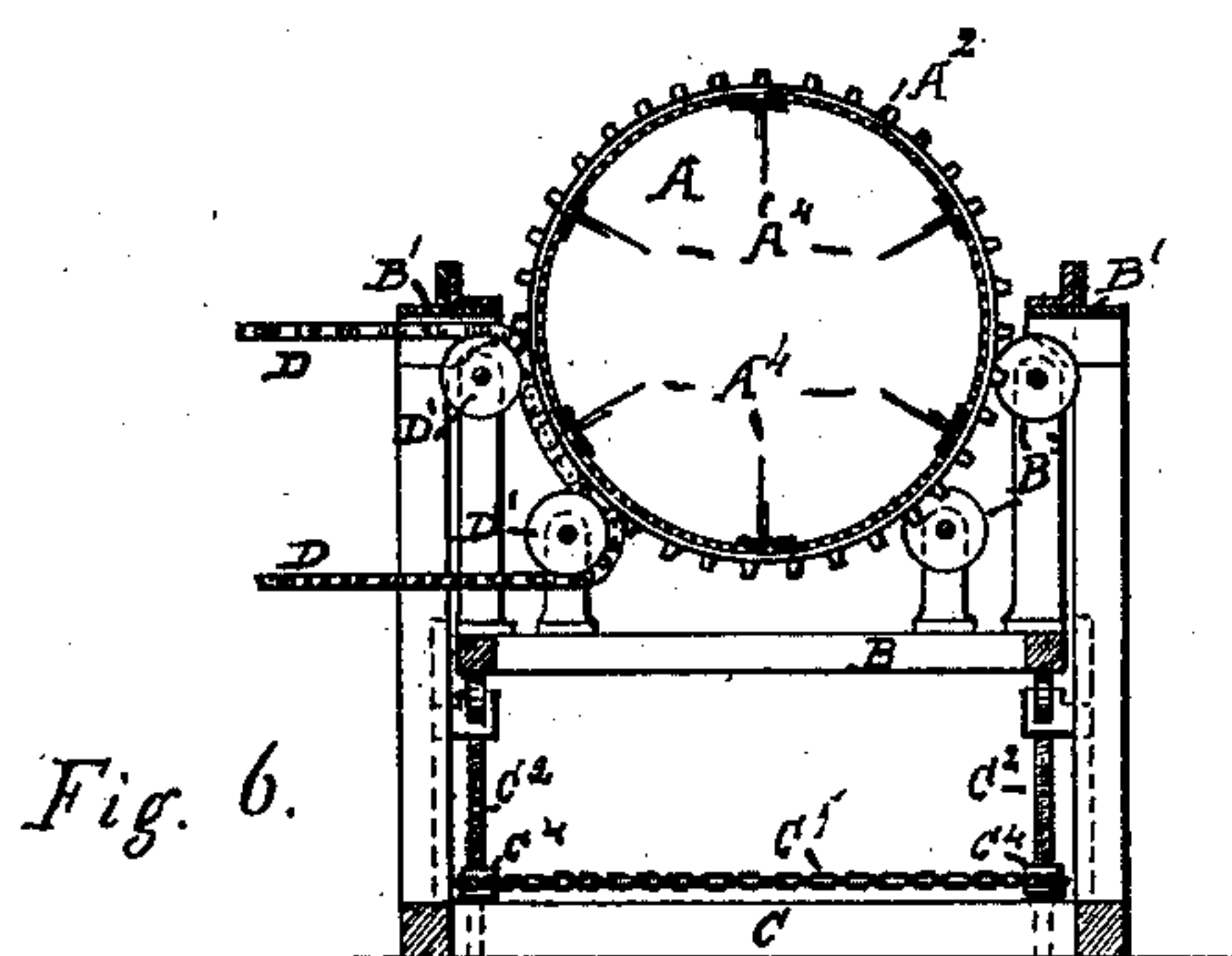
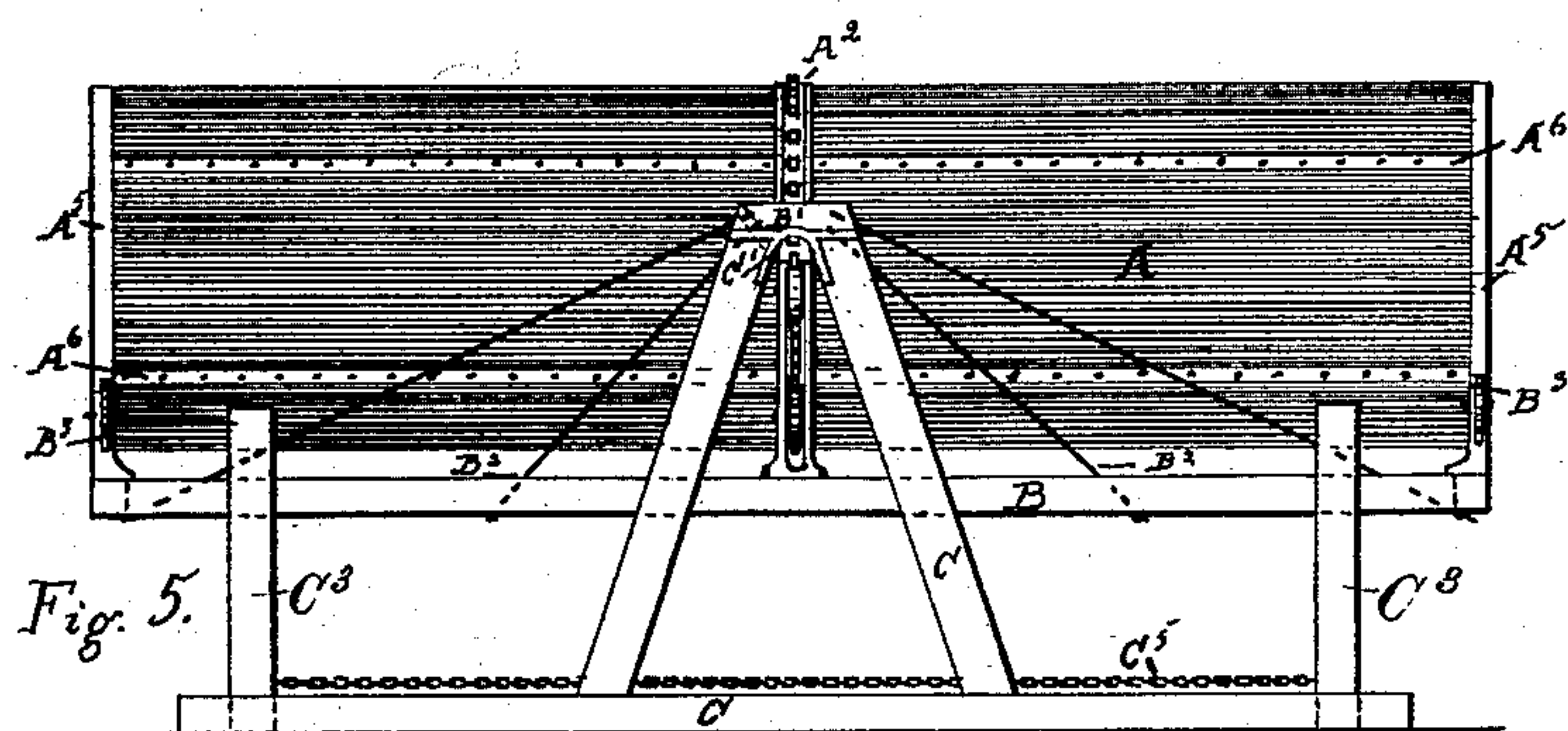
(No Model.)

2 Sheets—Sheet 2.

A. VIVARTTAS.
ADJUSTABLE SCREEN.

No. 393,944.

Patented Dec. 4, 1888.



Witnesses,
A. B. Dodge.
A. B. Thayer.

Inventor
Aloha Vivarttas.

UNITED STATES PATENT OFFICE.

ALOHA VIVARTTAS, OF WEST HOBOKEN, NEW JERSEY, ASSIGNOR TO ELMER L. SERGENT, OF HARTWICK, NEW YORK.

ADJUSTABLE SCREEN.

SPECIFICATION forming part of Letters Patent No. 393,944, dated December 4, 1888.

Application filed February 3, 1888. Serial No. 262,944. (No model.)

To all whom it may concern:

Be it known that I, ALOHA VIVARTTAS, a citizen of the United States, and a resident of West Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Adjustable Screens, of which the following is a specification.

My invention relates to an improved arrangement and construction of screens for garbage, coal, gravel, and other material, as per accompanying description and drawings.

Figure 1 is a top view of the screen and its connections. Fig. 2 is an end elevation. Fig. 3 is a broken side elevation of the same. Fig. 4 is a detail view of one segment as separated for cleaning. Fig. 5 is a side elevation. Fig. 6 is a vertical transverse section, and Fig. 7 is a vertical longitudinal section of the same.

The same letters refer to the same parts throughout.

The object of my invention is to make a screen suited to various kinds of material, and one that can be easily and quickly cleaned and kept in order.

I make a screen, A, consisting of a frame of iron or other suitable material, constructed of circular bands A^2 A^5 and longitudinal bars A^6 , to which are attached, by screws or other suitable fastenings, one or more screen-segments, A' . The segments A' may be made cylindrical, as shown, or straight, if preferred, and may be of any degree of fineness. One or more stirrers, A^4 , of any suitable form are secured to the frame of the screen A, as shown, in such a way as to carry the material around a portion of the revolution, permitting it to fall and roll down again, and thereby allowing the smaller portions to work out through the screen A. The bands A^2 A^5 rest upon the bearing-rolls B^3 D' and support the weight of the screen A. The band A^2 rests upon the rolls B^3 and D' , and is provided with sprockets, in which a chain, D, driven by steam or other power, engages, causing by its passage the revolution of the screen A. The rolls or wheels D' are provided with grooves, which guide the chain D fair with the sprockets of A^2 . The rolls B^3 D' are supported by a rocking frame,

B, which is steadied in position by the trunnions C' , secured to the standing or stationary frame C.

The frame B, which may be either of wood, as shown, or metal, if preferred, is provided with a cap or saddle, B' , resting but free to move upon the trunnions C' and suspension-rods B^2 .

The trunnions C' are of such form that the chain D passes through the center line of the rocking movement of A and returns so nearly under the same as not to affect its proper working when the screen A is inclined, as shown by the dotted line G.

The standing frame C is strongly made, either of wood or iron, and supported on a suitable foundation, and is provided with screws C^2 , which support the ends of the frame B, and by turning which the frame B and screen A may be caused to incline at any desired angle, as G. Such change of position may be made at will without stopping the operation of A. The screws C^2 are provided with guides C^3 , chain-wheels C^4 , and chain C^5 , so that turning one of the screws C^2 or pulling the chain C^5 will simultaneously work all of the others. In the case shown the screws at one end have right-hand, and at the other end left-hand, thread, or by crossing the chain C^5 all of the screws C^2 may be right hand, if desired.

The matter to be sifted is brought to the screen A by the elevator E and chute F, as shown, the arrangement of the whole being such that the elevator E and screen A may be changed in its inclination to suit the different kinds of material as they are fed in.

Having thus described the nature and uses of my invention, I claim—

The combination of the revolving screen A, the frame C, having the trunnions C' , the screws C^2 , the endless chain C^5 , the rocking frame B, saddle B' , and suspension-rods B^2 , substantially as described.

Signed at New York, in the county of New York and State of New York, this 2d day of February, A. D. 1888.

ALOHA VIVARTTAS.

Witnesses:

W. B. HOYT,
BENJ. T. PETTY.