

No. 885,102.

PATENTED APR. 21, 1908.

J. W. & O. STOCKER.
GRAINING CARD PAINTING MACHINE.

APPLICATION FILED OCT. 6, 1907.

3 SHEETS—SHEET 1.

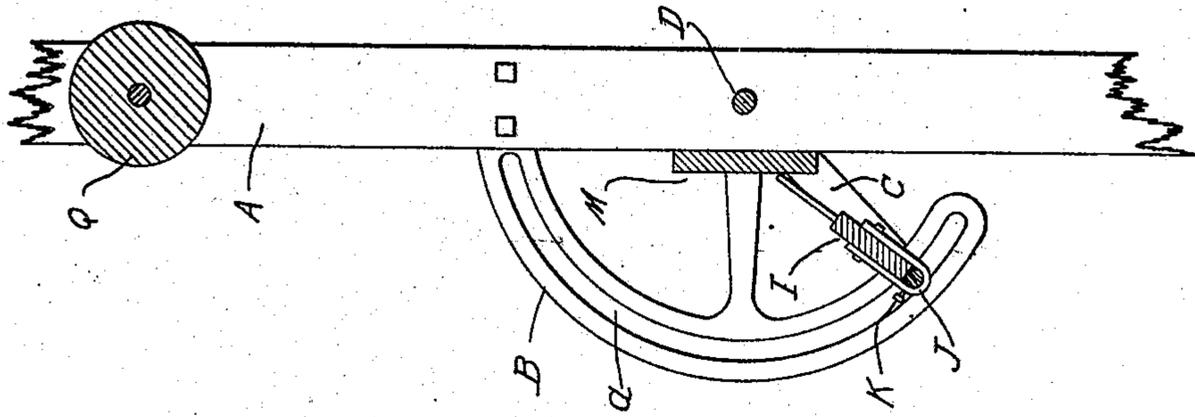


Fig. 2.

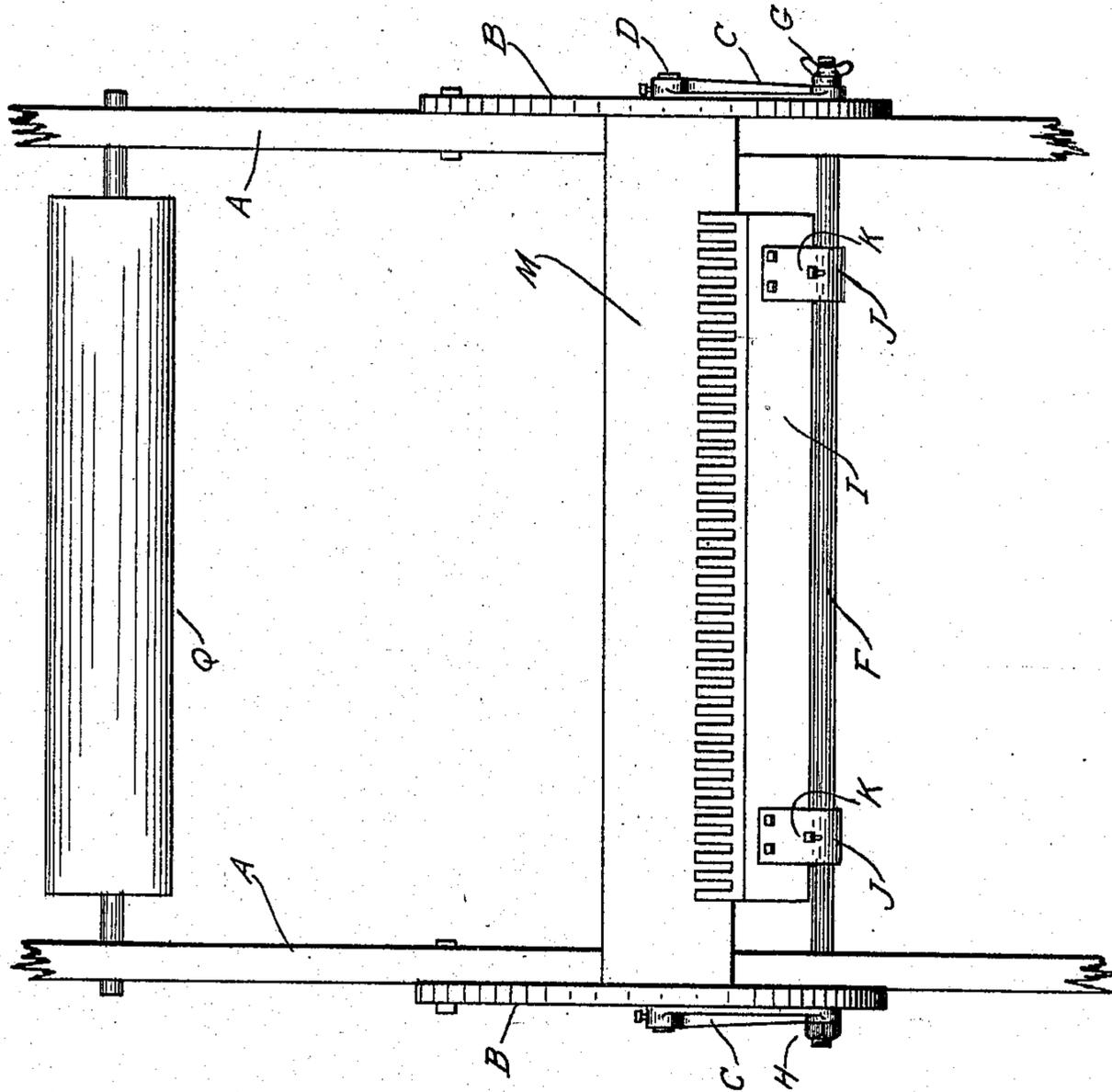


Fig. 1.

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3 SHEETS—SHEET 2.

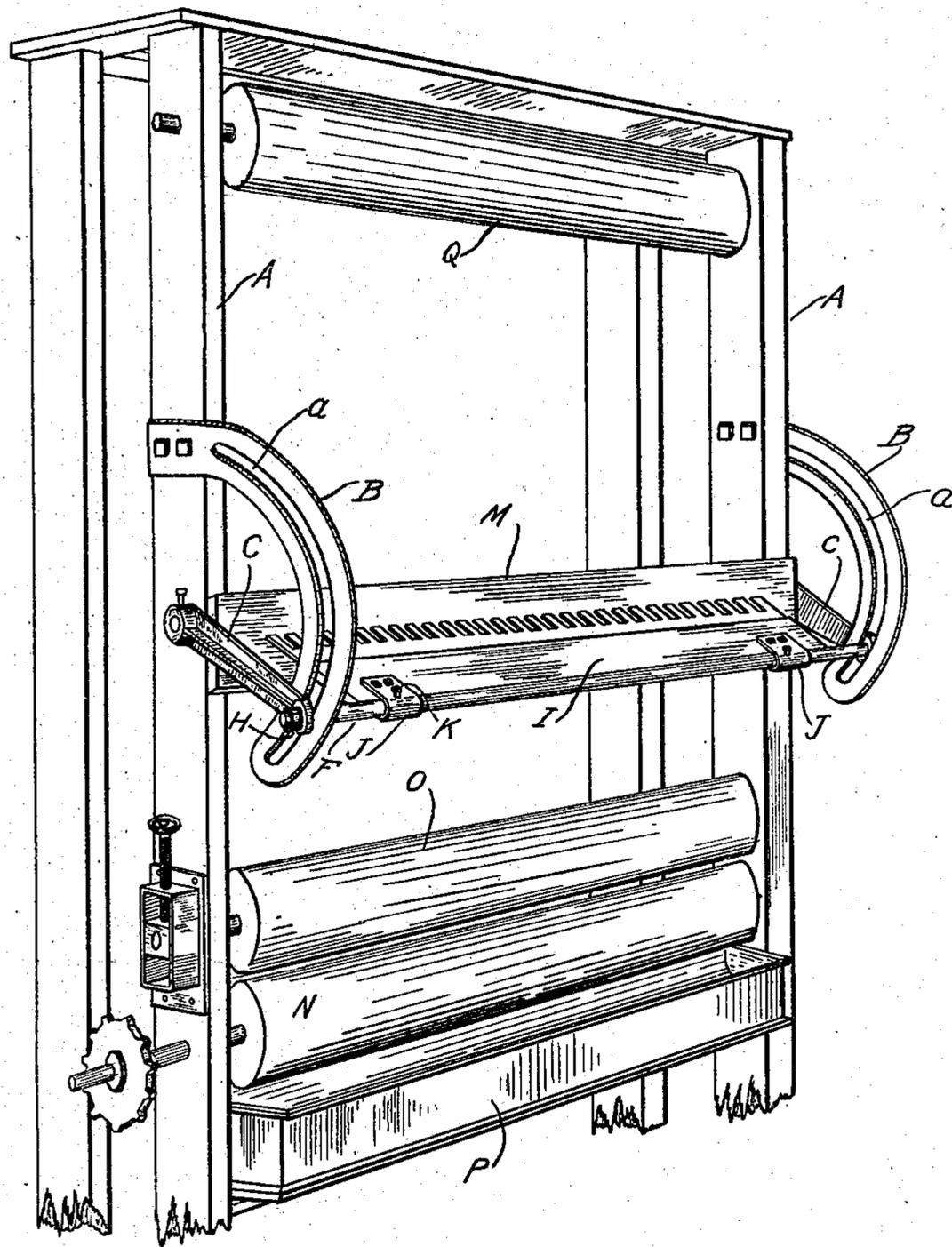


Fig. 3.

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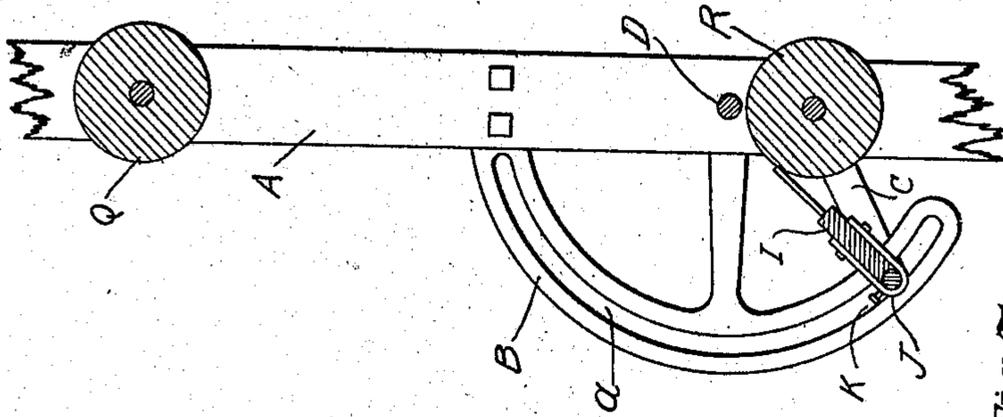


Fig. 7.

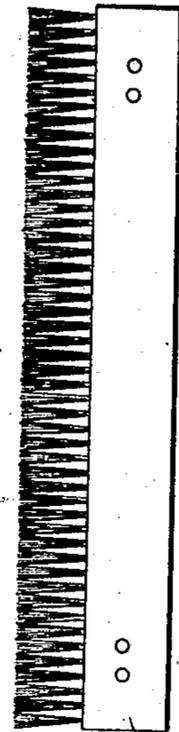


Fig. 4.

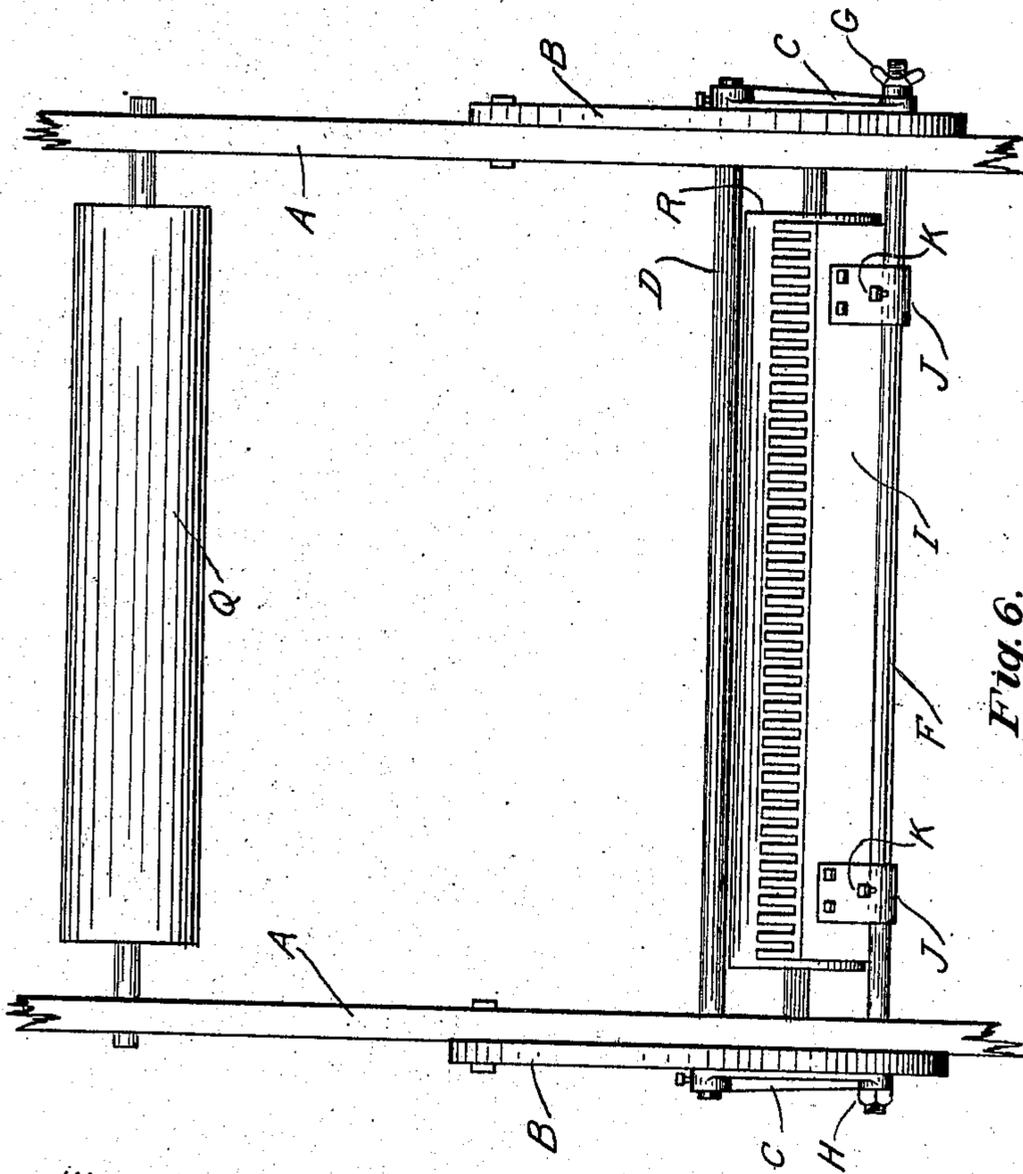


Fig. 6.

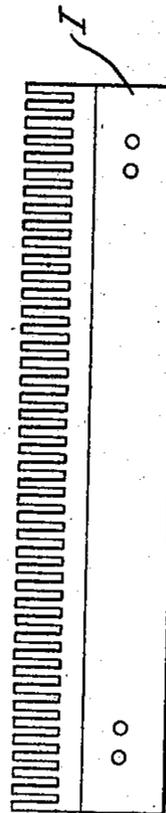


Fig. 5.

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UNITED STATES PATENT OFFICE.

JOHN W. STOCKER AND OTTO STOCKER, OF CHICAGO, ILLINOIS.

GRAINING CARD-PAINTING MACHINE.

No. 885,102.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed October 5, 1907. Serial No. 396,056.

To all whom it may concern:

Be it known that we, JOHN W. STOCKER and OTTO STOCKER, citizens of the United States, residing at No. 510 Schubert avenue, Chicago, Cook county, Illinois, have invented a certain new and useful Graining Card-Painting Machine, of which the following is a specification.

Our invention relates to machines designed to give sheets of paper painted on one side, the appearance of grained wood. And our invention is designed to be an improvement on the invention described in the patent to said John W. Stocker for card-painting machine #823,645, dated June 19, 1906.

The object of our invention is to apply to sheets of paper while same are being coated with paint by said card-painting machine, such treatment as will produce on such sheets so painted, an effect which will give their painted side the semblance of the grain of wood.

We attain our object by means of the mechanism described below, and illustrated by the accompanying drawings.

In the said drawings,—Figure 1—is a front elevation of our invention shown as connected with the said above named card-painting machine. Fig. 2—is an end elevation of the same shown as secured to said card-painting machine, and as operated together with the same. Fig. 3—is a perspective front view of our invention shown as connected with and operated by said card-painting machine. Fig. 4—is a front elevation of the brush; and Fig. 5—is a like view of the comb; which articles may respectively be used interchangeably in our invention. Fig. 6—is a front elevation of a part of the machine showing the roller named below. Fig. 7—is an end view of a roller secured between the uprights to aid in moving the sheet of paper upward.

Like letters refer to like parts throughout the drawings.

Referring to the drawings:—A is one of the two front uprights of the original card-painting machine (designated by the numeral 9 in the specification of the above named patent). B is one of two disks secured upon the sides of said two uprights. These are intended to regulate and determine the action of our brush or comb when in use.

a is a circular slot made in the disk B, the two disks having corresponding slots.

C is one of two corresponding arms designed to move the brush or comb.

D is a rod passing through the uprights, A, A, and through the inner ends of the arms, the arms being secured to the rod by set-screws.

F is a rod extending through the outer ends of the arms and through the slots in the disks, being screw-threaded at each end.

G and H are respectively the thumb-screw and nut secured on the ends of this rod.

I is the brush or comb. This is made of such width, that when in position for use, the brush-edge or comb-edge will be in contact with and pressed against the back-board mentioned below.

J is a clamp secured at one end to the rod, F, and at the other to the brush or comb, being thus secured by the set-screw, K and by bolts passing through the clamp and brush, or comb.

M is a back-board secured by nails or screws on the front side of the uprights, A, A, between the disks.

N and O are the lower and upper rollers, (designated by the numerals 7 and 8 in said patent), between which the sheet of paper passes upward after receiving its coating of paint from the lower roller, the same revolving in the paint-trough, P, (designated in said patent by the numeral 19).

Q is the revolving shaft, (designated by the numeral 16 in said patent), between the said uprights, A, A, near their upper ends, over which the sheet of paper is carried in the process of painting by the method described in said patent.

The brush and comb shown respectively in the Figs. 4 and 5, may be used in our machine interchangeably, as finer or coarser grains may be desired upon the paper.

The operation of our machine is as follows: Loosening the thumb-screw, G, and using it as a hand-piece, the rod, F, carrying the brush or comb, I, is revolved in the slots, a, a, until the brush is brought to any desired angle with the back-board, M, and the screw is then tightened. The brush or comb being in such position, the card-painting machine is put in operation. The sheet of paper is inserted between the rollers, N and O, as they revolve, the roller N takes up the liquid paint from the trough P, the sheet is coated with the paint by its contact with the roller, N, and passing upward in front of the back-board, M, the brush or comb, in its fixed position is pressed against the sheet on its painted side, and thus trailing through the

paint while still moist, leaves traces closely resembling the grain of wood. Being thus pressed against the back-board, it is possible that friction with the shaft, Q, might not be sufficient to keep the sheet of paper moving upward, and hence we have devised the roller, R, securing it between the uprights,

A, A, opposite to the disks, in such a way that, revolving, it will press against the sheet, and being connected with the shaft, Q, so as to revolve in the same direction, it will reinforce the action of the shaft, and will thus keep the sheet of paper moving upward. Such connection can be made by any well known mechanical means, as by sprocket wheels on the pivots of the shaft and roller, produced, together with sprocket chains connecting such wheels.

Varying degrees of fineness and coarseness can be obtained by using brushes made of finer or coarser hair, and combs made with less or greater width of dental spaces.

Our claims will be based on the identity of the brush and the comb for the purpose of our invention. And our claims will not be based on brushes or combs made of any particular kinds of materials suitable for such purposes. Brushes may be made of any suitable kind of hair, or leather or other material, and combs may be made of horn, rubber, gutta-percha or metal, or any other suitable material.

Having fully described our invention, what we claim as new therein, and desire to secure by Letters Patent of the United States is—

1. A graining card-painting machine consisting of the disks, B, B, secured opposite to each other on the uprights, A, A, and having the circular slots, *a, a*, made therein; the arms C, C; the rod, D, passing through the inner ends of the arms and through the

uprights; the rod, F, extending through the outer ends of the arms and through the slots; the brush or comb, I, rigidly secured upon the rod, F, all in combination substantially as above set forth, as and for the purpose above set forth.

2. In a graining card-painting machine, the combination of the disks, B, B, secured opposite to each other on the uprights, A, A, and having the circular slots, *a, a*, made therein; the arms, C, C; the rod, D, passing through the inner ends of the arms and through the uprights, the rod, F, extending through the outer ends of the arms and through the slots; the brush or comb, I, rigidly secured upon the rod, F; and the back-board M, rigidly secured on the front of the uprights, A, A, between the disks; substantially as and for the purpose above set forth.

3. A graining card-painting machine consisting of the disks, B, B, secured opposite to each other on the uprights, A, A, and having the circular slots, *a, a*, made therein; the arms, C, C; the rod, D, passing through the inner ends of the arms and through the uprights; the rod, F, extending through the outer ends of the arms and through the slots; the brush or comb, I, and the roller, R, secured in the uprights opposite the disks; rigidly secured upon the rod, F; all in combination with the uprights, A, A, the paint-trough, P, the rollers, N, and O; and the revolving shaft, Q; the last four being parts of said above named card-painting machine; substantially as and for the purpose stated.

JOHN W. STOCKER.
OTTO STOCKER.

Witnesses:

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C. STOCKER.