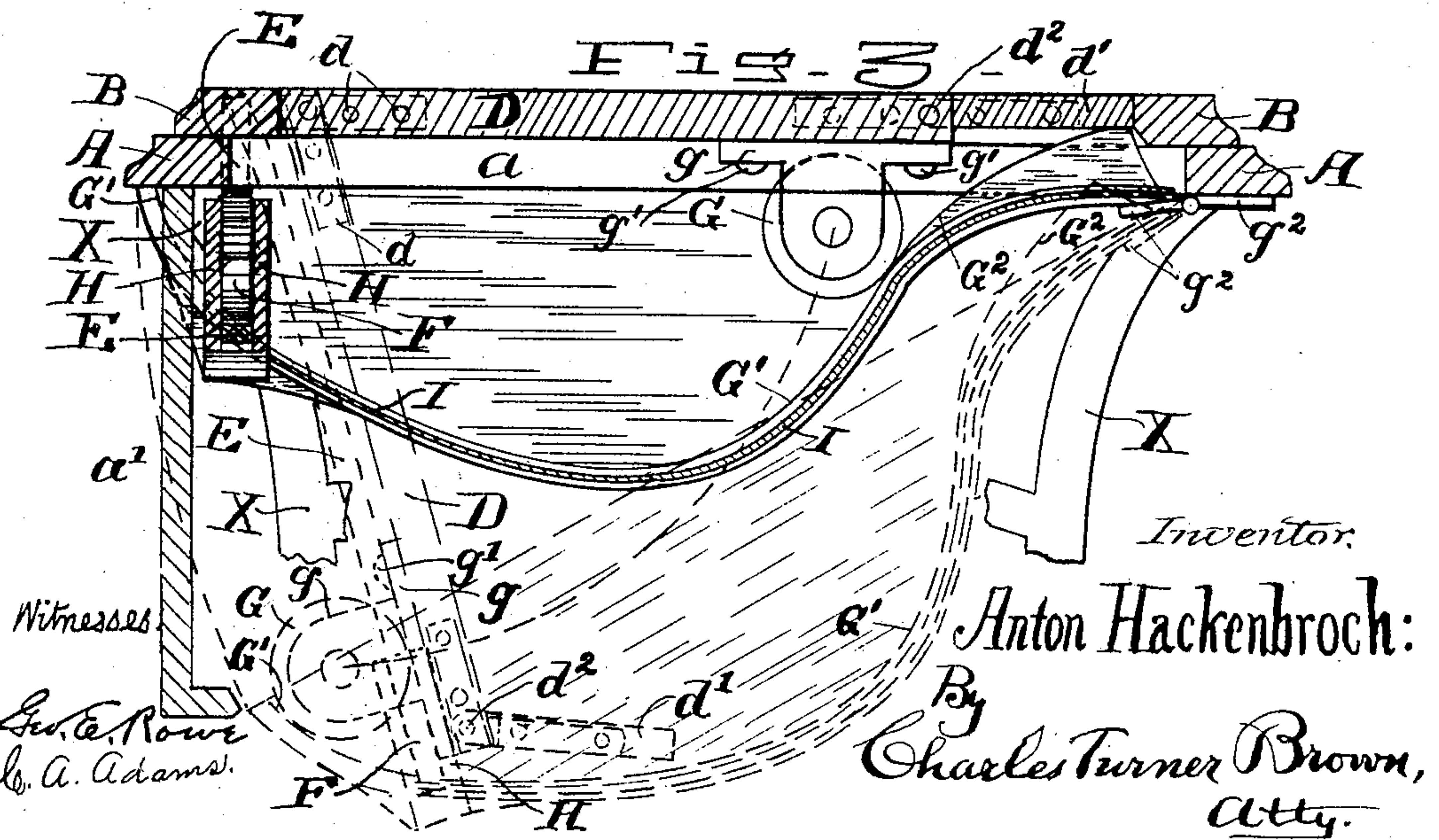
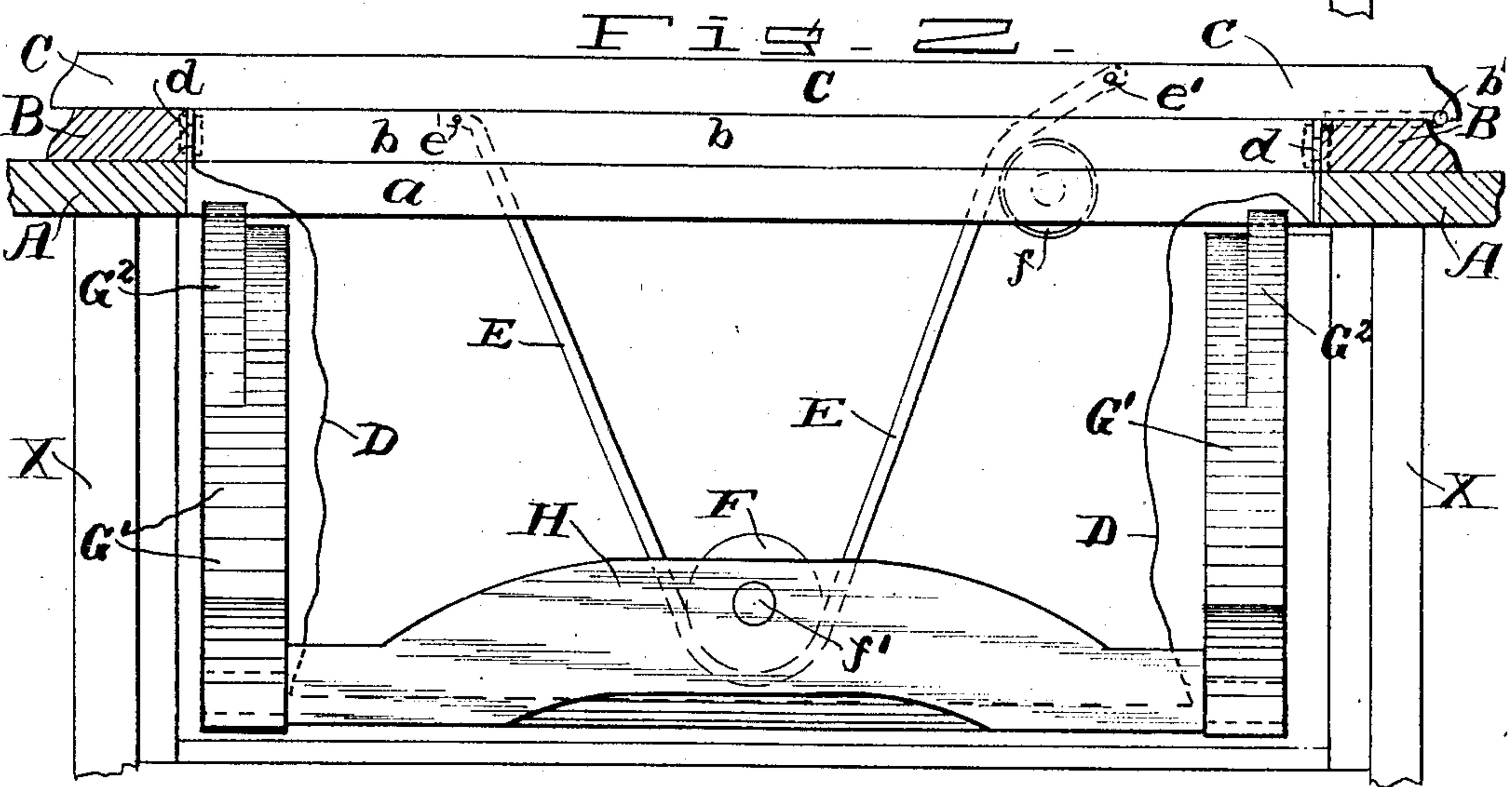
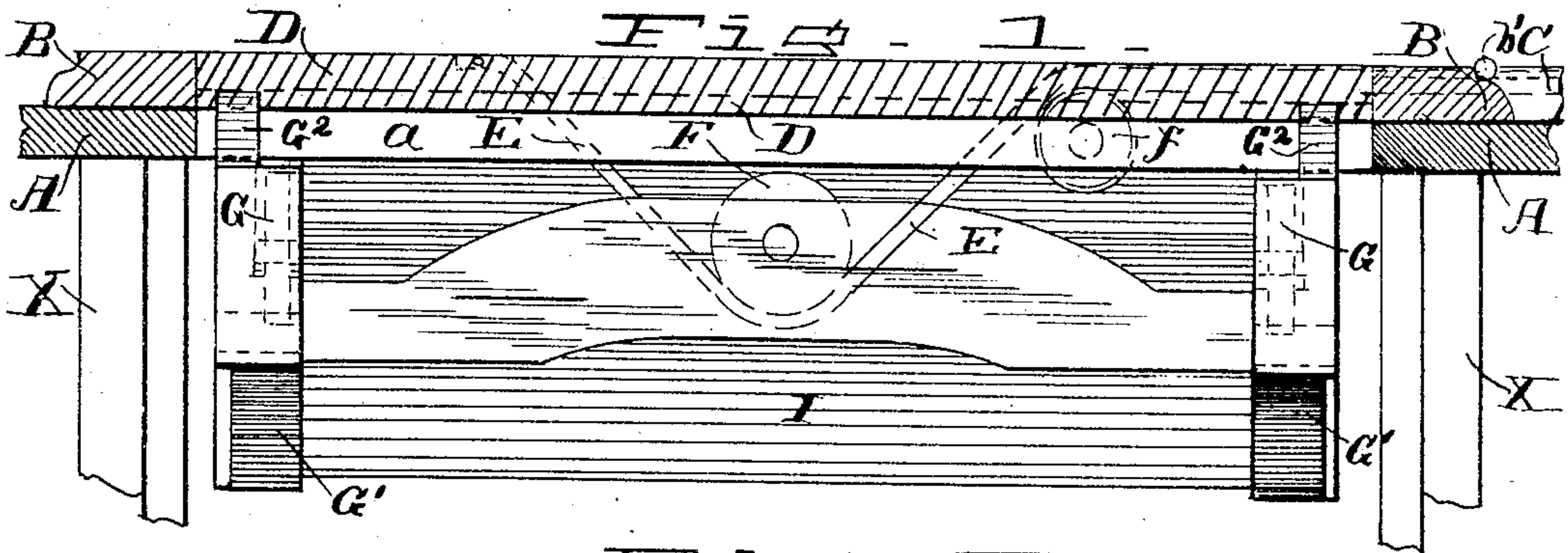


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A. HACKENBROCH.
CABINET HEAD FOR SEWING MACHINES.

APPLICATION FILED JUNE 20, 1904.



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CABINET-HEAD FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 785,877, dated March 28, 1905.

Application filed June 20, 1904. Serial No. 213,343.

To all whom it may concern:

Be it known that I, ANTON HACKENBROCH, a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Cabinet-Heads for Sewing-Machines, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete description, sufficient to enable those skilled in the art to which it pertains to understand, make, and use the same.

This invention relates to what are known in the art as "drop cabinet-heads" for sewing-machines—that is, sewing-machine cabinet-heads which may be placed on iron legs or on a wooden desk-like structure—such cabinet-head having a table provided with an aperture therein and having a hinged leaf-top which may be turned to one side of the table, thereby automatically bringing a base-board on which a sewing-machine is secured into position filling the aperture in the table, at which time the sewing-machine is in an operative position; and the object of this invention is to obtain a cabinet-head for a sewing-machine wherein the hinged leaf-top can be easily turned from its position over the table of the head into a position to one side thereof, and thereby automatically raise the sewing-machine base-board, together with the sewing-machine thereon, out from a dropped position into position in the aperture of the top of the table with the sewing-machine in operative place and to obtain a cabinet-head of the kind described wherein the resistance to such turning of the top leaf will be substantially uniform, to obtain a cabinet-head wherein when the top leaf thereof is closed over the table-top and the base-board of the sewing-machine, together with the sewing-machine thereon, is down such sewing-machine will be inclosed in a substantially dust-proof receptacle and when such top leaf is turned to one side, or open, the sewing-machine base-board, together with the portion of the casing of the dust-proof receptacle which would otherwise be an obstruction to the legs of the person operating the sewing-machine, are both automatically raised (at the same

time) to permit free movement of the legs of the operator of the machine.

A further object of this invention is to obtain a cabinet-head for sewing-machines of the kind described wherein when the sewing-machine base-board is raised by the turning to one side of the top leaf, as described, the forward edge of the sewing-machine base-board will be rigidly held in place, so that the sewing-machine may be operated without vibration or movement thereof to any appreciable extent.

The manner in which I accomplish the several objects sought by me is embodied in the construction illustrated in the drawings referred to, in which—

Figure 1 is a longitudinal vertical sectional view of a cabinet-head for sewing-machines with an apparatus embodying the invention attached thereto and shown in rear elevation, the sewing-machine base-board of the apparatus being raised into a horizontal position and the several parts of the apparatus in proper relation thereto. Fig. 2 is a longitudinal vertical sectional view of a cabinet-head for sewing-machines having an apparatus embodying this invention attached thereto, showing a rear elevation of such apparatus with the sewing-machine base-board down, the top leaf closed, and the remaining parts of the apparatus in proper relation thereto; and Fig. 3 is a lateral vertical sectional view of a cabinet-head for sewing-machine having an apparatus embodying this invention attached thereto, with the sewing-machine base-board in a raised position, with the several parts of the apparatus shown in full lines properly related thereto and such machine base-board and the remaining parts of such apparatus indicated by broken lines in a dropped position.

A reference-letter applied to indicate a given part is retained and applied to such part throughout the several figures of the drawings wherever the same appears.

XX are the legs of the cabinet-head.

A is the table of the cabinet-head and is provided with aperture *a* therein.

a' is a vertical back board to table A and is shown in Fig. 3 of the drawings. Such back

board a' is removed from its position in Figs. 1 and 2 to expose to view the operative parts of the apparatus.

B is a raised portion to the table A, usually obtained by securing strips provided with molded edges around the aperture a on the upper surface of the table A. Aperture b is thus obtained, such aperture b corresponding with aperture a .

$b' b'$ are hinges, Figs. 1 and 2. One leaf of the respective hinges $b' b'$ is attached to the raised portion B of the table-top, and the other leaf of such hinges is attached to the top leaf C.

D is the sewing-machine base-board of the apparatus.

$d d$ are pivotal hinges by means of which sewing-machine base-board D is attached adjacent to one of the edges thereof to the table-top in proper place to be turned up through the aperture a into a substantially horizontal position in aperture b .

d' is a leaf attached by pivotal hinges $d^2 d^2$ to the forward edge of the machine base-board D. The machine base-board D, together with the leaf d' , substantially fills the aperture b when such machine base-board and leaf are in a horizontal position, as illustrated in Figs. 1 and 3 of the drawings.

E is a flexible cord or chain attached at one end, as by a pin or bolt e , to the table-top and at the other end, as by a pin or bolt e' , to the top leaf C.

F f are respectively wheels over the periphery of which the chain or flexible cord E extends.

G is a wheel rotatably mounted in frame g to travel on the curved track G' . Frame g is secured to the under surface of the machine base-board D, as by the bolts or screws $g' g'$, Fig. 3.

The curved tracks $G' G'$ are attached at one end thereof respectively by means of hinges $g^2 g^2$ to the under surface of the table-top A. (See Fig. 3.)

H is a bar attached at one end to the free end of one of the curved tracks $G' G'$ and at the other end attached to the free end of the other one of such tracks. Wheel F is rotatably mounted in bar H, as by axle f' .

G^2 is a prolongation of curved track G' . The forward end or edge of the hinged leaf d' rests on the track G' when the base-board D is down in the position illustrated in Fig. 2 of the drawings and indicated by broken lines in Fig. 3, and when such base-board D and loose leaf d' are being raised into a horizontal position such forward edge of the leaf d' slides or travels along on the track G' until such forward edge reaches the prolongation G^2 of such track, after which it travels on such prolongation of the track and is thereby guided into the position illustrated in Fig. 3 of the drawings, where it forms a horizontal extension of the machine base-board D and when

in connection with such machine base-board completely filling the aperture b .

I is a panel which is secured at its ends in tracks $G' G'$.

The operation of this machine is as follows: When the top leaf C is turned on hinges $b' b'$ from the position in which such top leaf is illustrated in Fig. 2 of the drawings into the position illustrated in Fig. 1 of the drawings, the chain or flexible cord E is thereby drawn over the roller f and around the roller F, thereby raising the bar H and the free ends of the tracks $G' G'$, which are attached to the ends of such bar. As the track G' is raised the roller G is forced to travel along such track from the position thereof indicated by broken lines in Fig. 3 of the drawings into substantially the position thereof illustrated by full lines in such Fig. 3, at which time the machine base-board D is in a substantially horizontal position. As the machine base-board D is thus raised from the position thereof indicated by broken lines in Fig. 3 into the position illustrated by full lines in such Fig. 3 the leaf d' is forced ahead of such machine base-board, the forward edge of such leaf d' resting, as described, on the track G' and on track G^2 , so that at about the time the machine base-board D is in a horizontal position such leaf d' will also be in a horizontal position. The panel I, forming the front and under side of the receptacle into which the machine base-board D and loose leaf d' are dropped by closing the top leaf C from the position thereof illustrated in Fig. 1 of the drawings into the position illustrated in Fig. 2 of the drawings, is raised and lowered with the raising and lowering of the tracks $G' G'$, and thus the receptacle named is varied in size by the opening and closing of the top leaf C, such receptacle being sufficiently large when the base-board D is down to contain such base-board and a sewing-machine attached thereto and being so small when the base-board D is in a horizontal position that the forward and under side thereof (formed by panel I) is out of the way of the legs of a person sitting at the cabinet and operating the treadle of such sewing-machine. A sewing-machine being attached to this base-board in the same manner as sewing-machines are attached to the base-board of drop-head cabinets as heretofore made, I have not considered it necessary to illustrate a sewing-machine in the drawings.

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

1. In a cabinet-head for sewing-machines, the combination of a table provided with an aperture therethrough, a machine base-board pivotally attached to the table, a leaf pivotally attached to the forward edge of the machine base-board and tracks underneath the table pivotally connected at one end thereof, respectively, to the table, such tracks and

pivotal-attached leaf related so that when the machine base-board is in a horizontal plane the forward edge of such leaf rests on the tracks and the leaf is maintained in a horizontal plane thereby; substantially as described.

2. In a cabinet-head for sewing-machines, the combination of a table provided with an aperture therethrough, a leaf above the table, hinges, to attach one edge of the leaf to the table, tracks below the table, a panel between the tracks to move therewith, hinges to attach one end of the tracks to the table, a bar attached to the end of the tracks which are not hinged to the table, a roller rotatably mounted on such bar, a flexible chain or cord extending under the roller, such flexible connection attached at one end to the table and at the other end to the top leaf, a machine base-board pivotally attached to the table, and rollers rotatably mounted on the under side of the base-board to travel on the tracks; substantially as described.

3. In a cabinet-head for sewing-machines, the combination of a table provided with an aperture therethrough, a leaf above the table, hinges connecting one edge of the leaf to the table, tracks below the table, a panel between the tracks, such panel constituting the front and bottom of a receptacle when the cabinet-head is closed, hinges attached to the table and to one end of the respective tracks, a bar attached to the other end of the tracks, a

roller rotatably mounted on the bar, a flexible connection extending under the roller such connection attached at one end thereof to the table and at the other end to the leaf which is hinged above the table, a second leaf pivotally attached to the forward edge of the machine base-board, the position of such second leaf controlled by a connection between the forward edge thereof and the tracks, and rollers rotatably mounted on the under side of the machine base-board; substantially as described.

4. In a cabinet-head for sewing-machines, a table-top provided with an aperture therethrough and a leaf hinged to the upper surface of the table-top in combination with a receptacle, hinges attached to the forward edge of the receptacle and to the under surface of the table-top adjacent to the forward edge of the aperture therethrough, tracks in the receptacle, a machine base-board pivotally attached to the table-top adjacent to the rear edge of the aperture therethrough, rollers pivotally attached to the under surface of the machine base-board to rest on the tracks in the receptacle, and a flexible connection between the hinged top leaf and the free end of the receptacle; substantially as described.

ANTON HACKENBROCH.

In presence of—

CHARLES TURNER BROWN,
CORA A. ADAMS.