

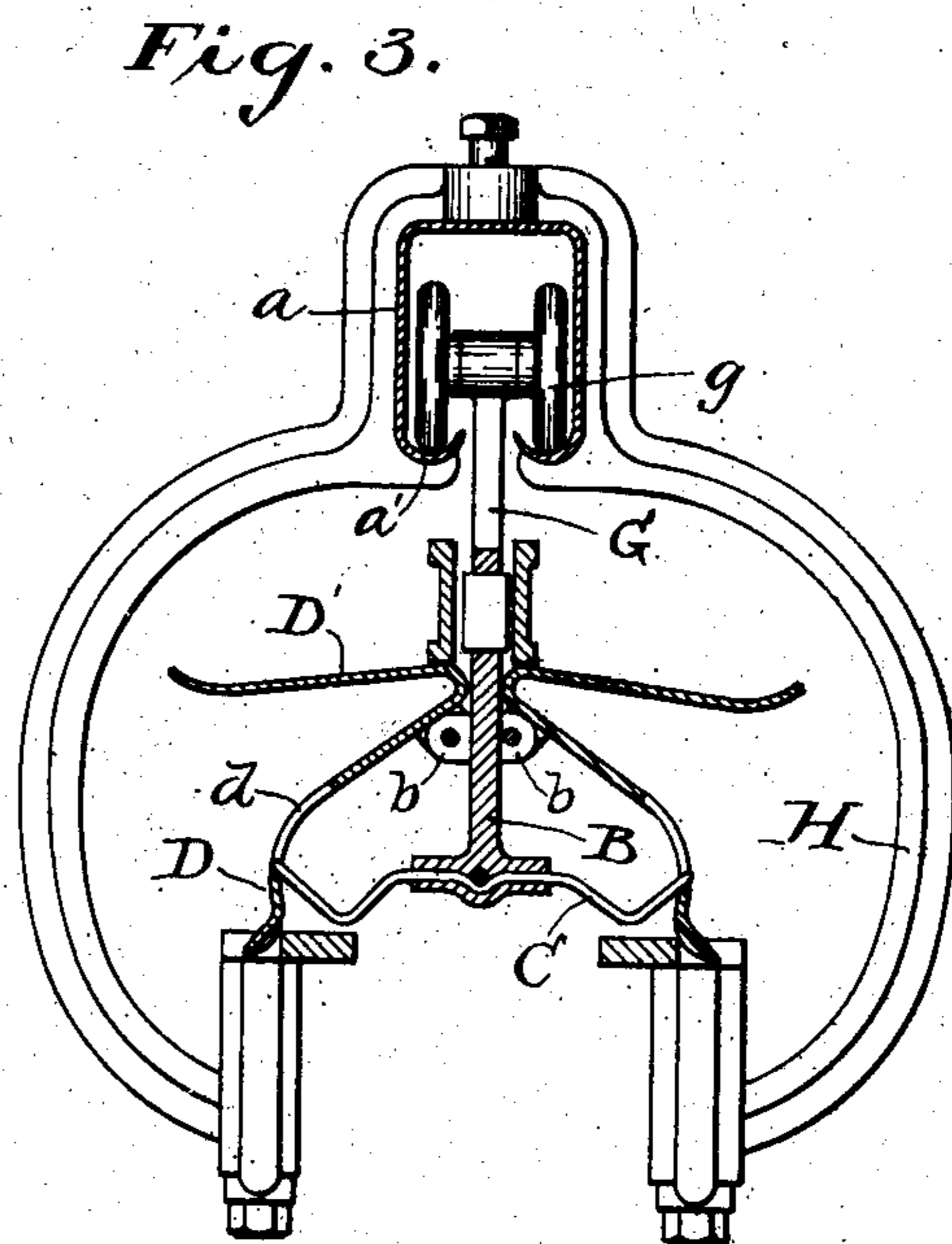
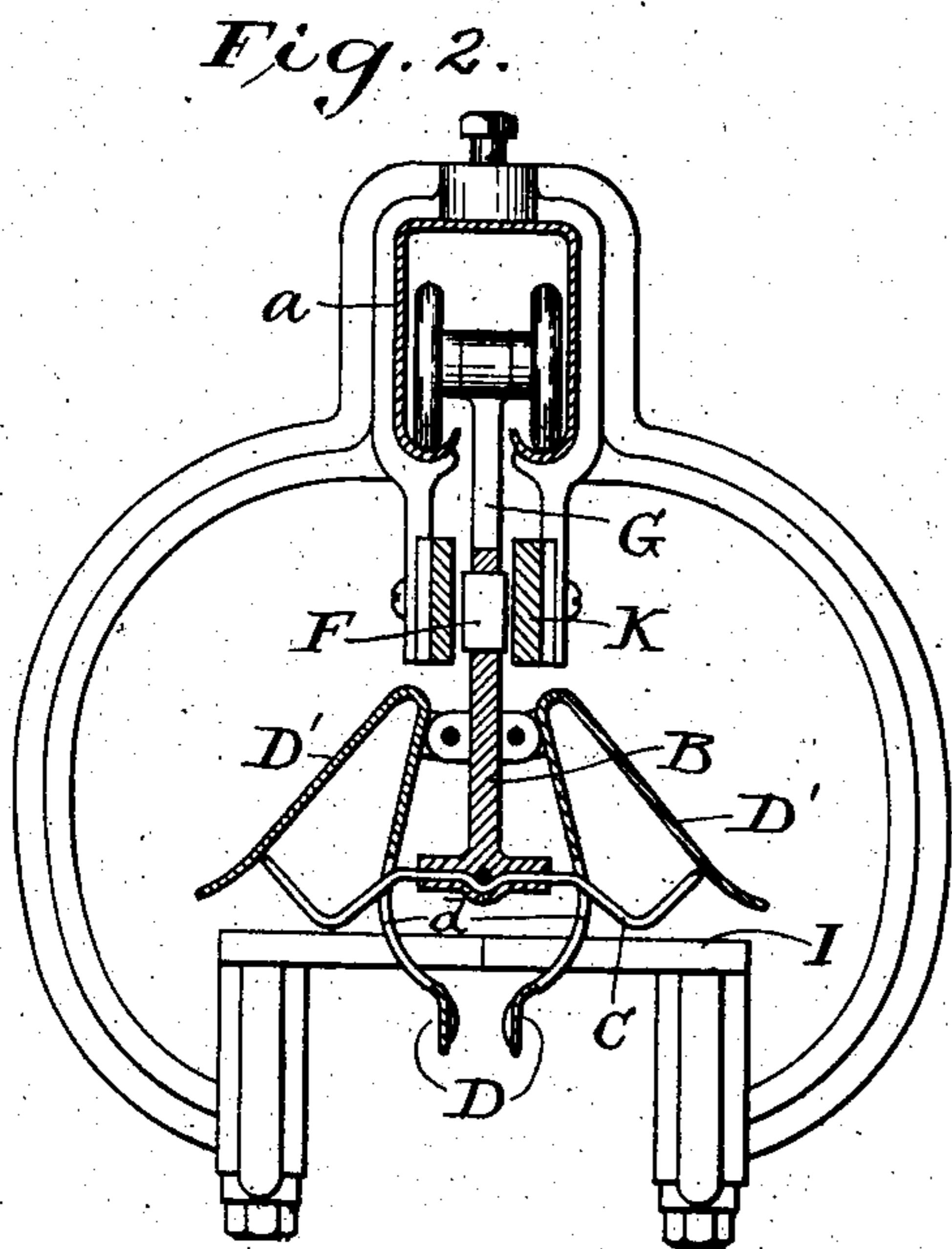
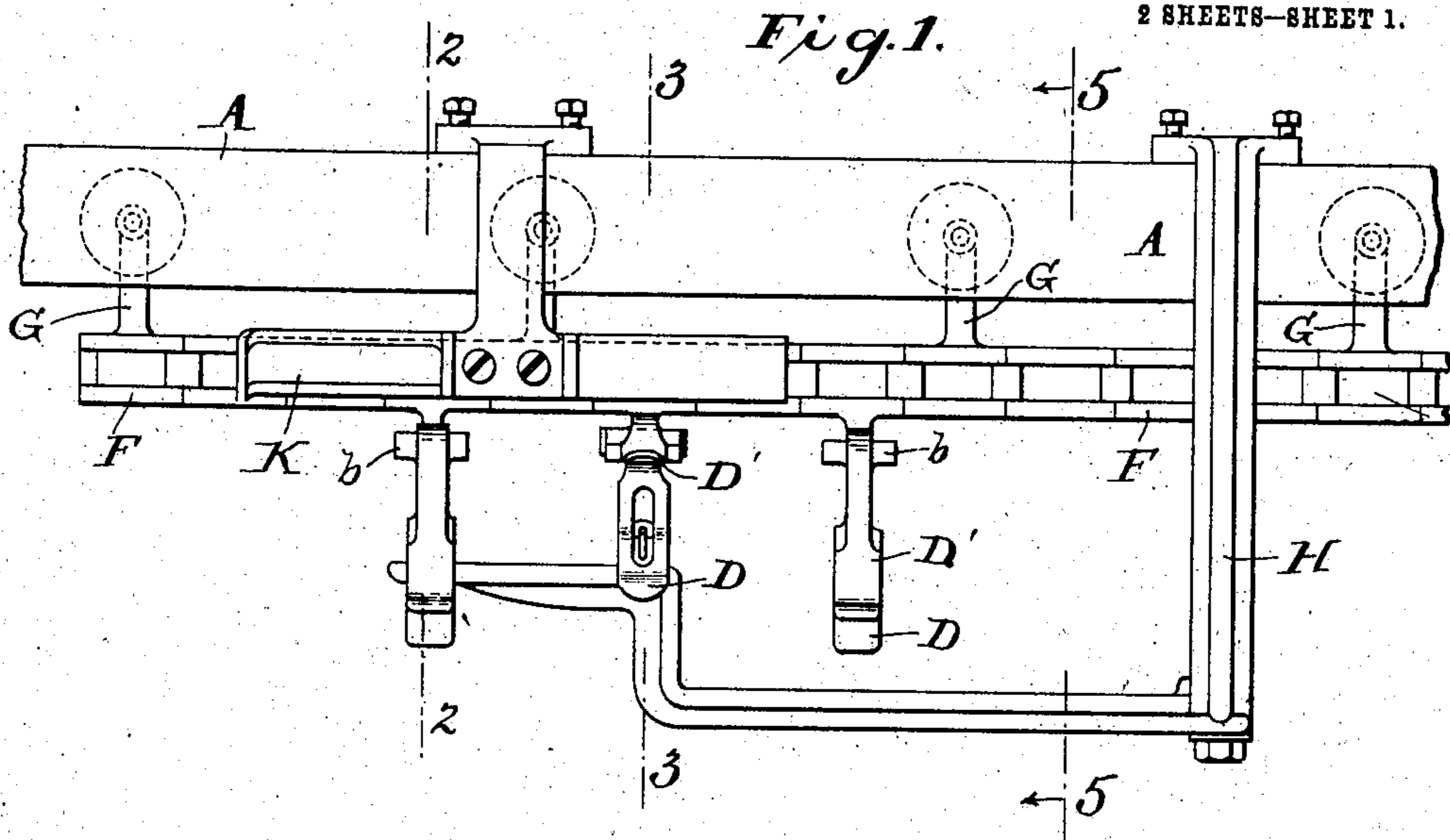
No. 833,910.

PATENTED OCT. 23, 1906.

W. M. BARNES.
 DEVICE FOR SECURING GOODS UPON AND REMOVING THE SAME FROM
 CLOTHES DRIER SUPPORTS.

APPLICATION FILED JAN. 14, 1905.

2 SHEETS—SHEET 1.



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Fig. 4.

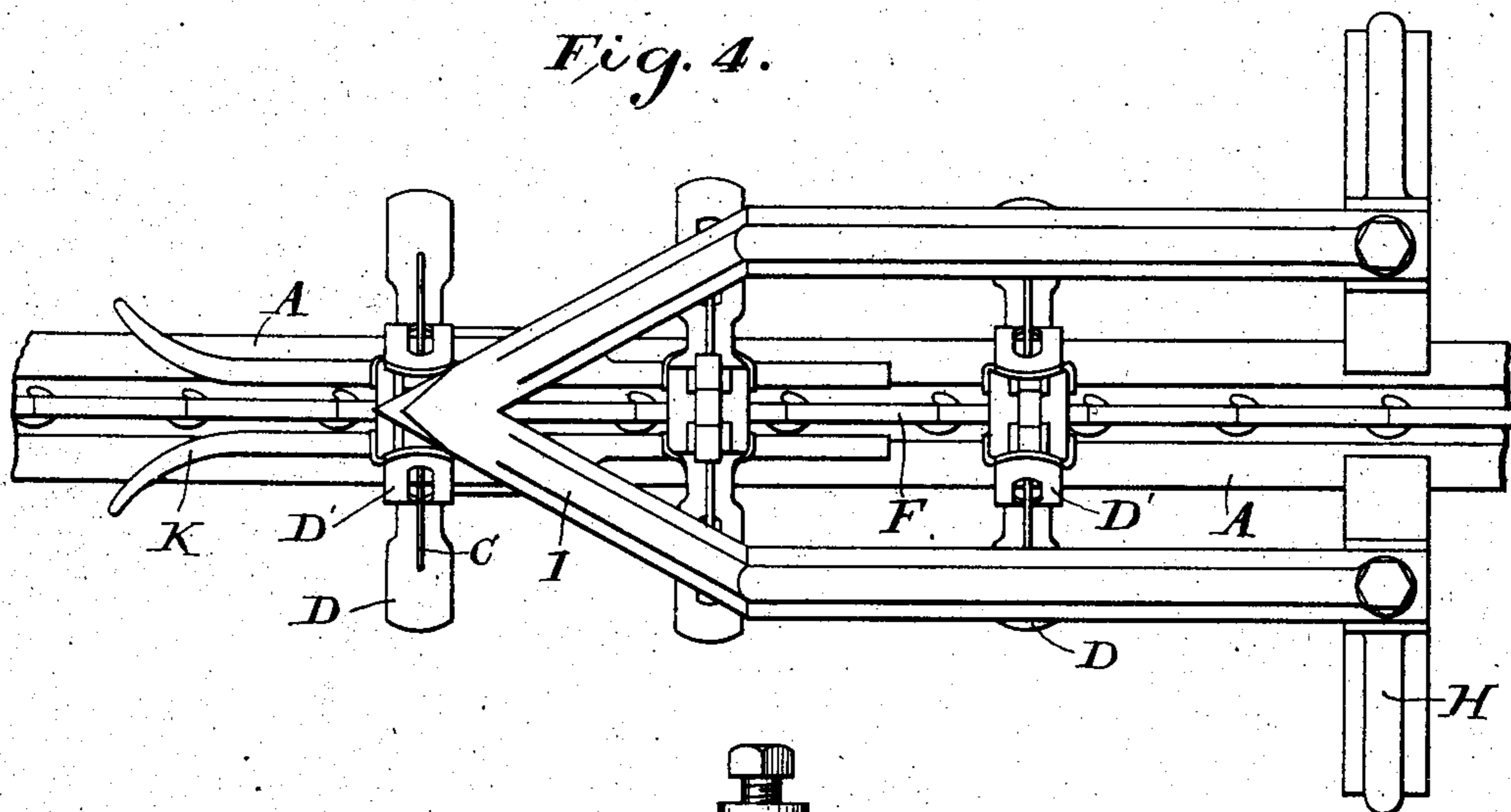
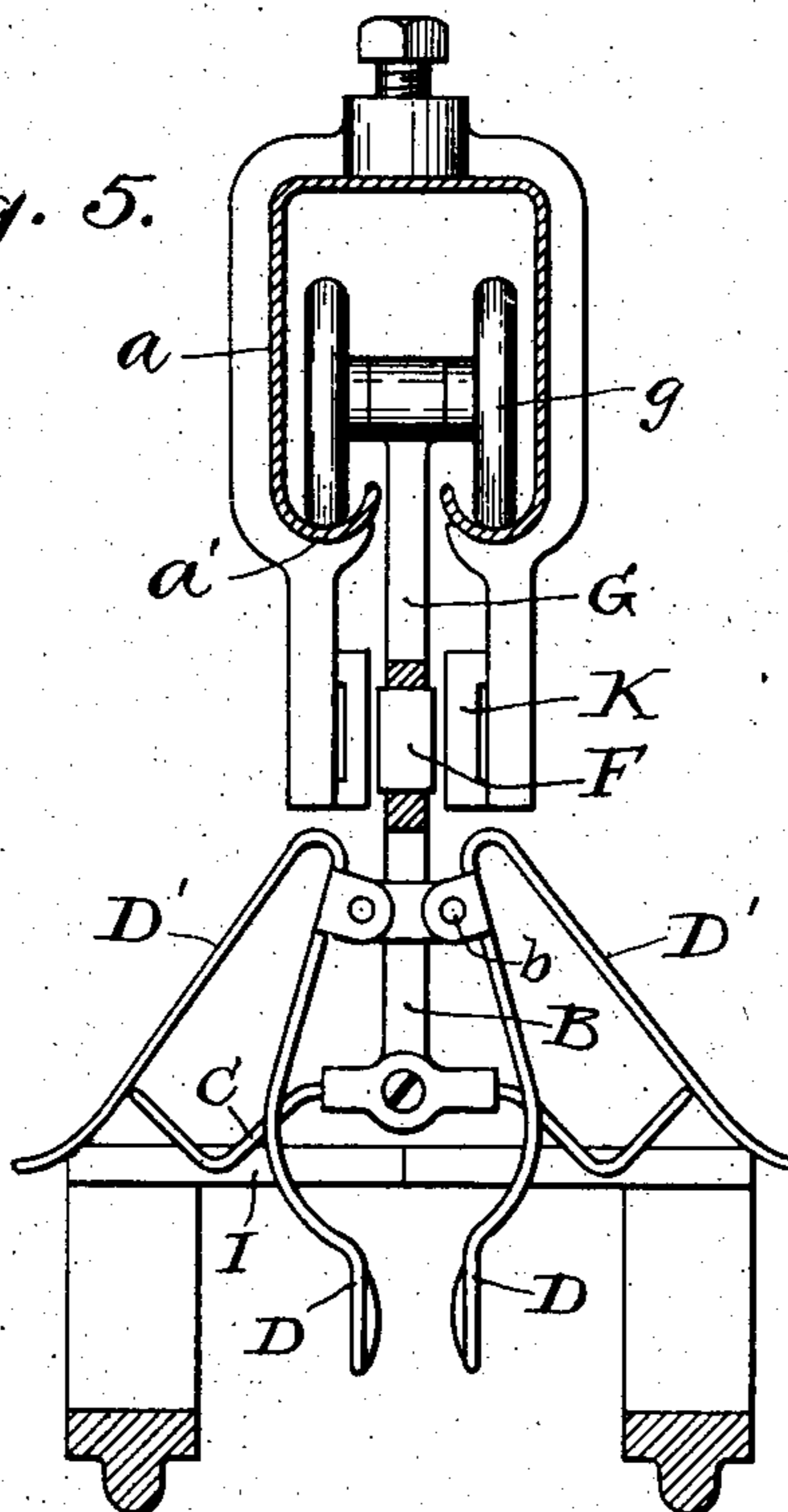


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM M. BARNES, OF PHILADELPHIA, PENNSYLVANIA.

DEVICE FOR SECURING GOODS UPON AND REMOVING THE SAME FROM CLOTHES-DRIER SUPPORTS.

No. 833,910.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Continuation of application Serial No. 163,490, filed June 29, 1903. This application filed January 14, 1905. Serial No. 241,038.

To all whom it may concern:

Be it known that I, WILLIAM M. BARNES, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Devices for Securing Goods upon Clothes-Drier Supports and Removing the Same Therefrom, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for its object certain improvements in the mechanism or devices for securing the goods with certainty upon clothes-drier supports—such, for instance, as the pins in the clothes-drier patented to me October 22, 1901, No. 684,776—and yet allowing the goods to be automatically stripped therefrom. In that patent the goods rest upon pins and are positively stripped therefrom by passing in line with fixed strippers. In practice I have found with that machine that light garments, such as collars and cuffs, in passing through the drying-room will sometimes escape from the pins, which is exceedingly detrimental. In my present invention I have obviated this difficulty. Broadly, I provide the hanger, which supports the pins, with pivoted arms, which normally close the ends of the pins, so that no garment can escape therefrom, but which arms can swing on their hinges or pivots to release the garment. I also provide a hinged stripping-arm, also carried by the hanger, which encircles the pin and can be moved on its pivot or hinge to strip the garment from the pin or support, the arrangement broadly being that the two arms working in unison lock the goods upon the pins, except when the stripping-arm is in operation.

I will first describe the embodiment of my invention illustrated in the accompanying drawings and then specifically point out the invention in the claims.

In the drawings, Figure 1 is a side elevation of parts assembled. Fig. 2 is a section on line 2 2, Fig. 1. Fig. 3 is a section on line 3 3, Fig. 1. Fig. 4 is a bottom plan view of parts assembled. Fig. 5 is a section on line 5 5, Fig. 1, in direction of arrow.

A is the trackway secured to the drying-room, as described in my Patent No. 684,776, having the downwardly-projecting portion *a* and inwardly-projecting portions *a'*, forming a slotted double trackway.

F is the conveyer. As shown, it is an ordinary link-belt conveyer. To this conveyer F at a plurality of points are connected hangers G, having their upper ends forming a bearing for the rollers *g*. The shank of hanger G is of such thickness that it can pass between the ends of the projections *a'* of the trackway A. At a plurality of points, preferably the distance of a link apart, are the hangers B, in which the pins C are secured. Pivoted to the head *b* of hanger B on each side are the arms D and D', which in the specific form shown in the drawings are formed from a single piece of metal. The arms D and D' by their weight normally tend to swing inward. Both arms extend below the pins C and are enlarged at their lower portion. The arm D is slotted at *d*, so that the pin C passes through it and the arm can swing inward to the inner end of the pin. The arm D' is not slotted and in its inner position rests against the outer end of pin C.

Secured to the track A by arms H are the angular cams I, converging together central of the conveyer. These cams I are in line of movement of the inner surface of arms D and inclining outward, as they do, cause the arms D and D' to swing on their pivots, releasing arm D' from the end of the pin, and the movement of arm D outward will force the goods off from the pin. After the arms D and D' have passed beyond the cams I by gravity they will return to their initial position.

K is a guideway for the conveyer at the point where the arms D D' are being acted upon by the cam I.

By this construction the goods are retained upon the goods-support until the desired point of removal and are then positively and automatically removed.

Having now fully described my invention, what I claim, and desire to protect by Letters Patent, is—

1. In a machine of the character described, the combination with the traveling conveyer, of a goods-support and a goods-support guard carried thereby, and means adapted in the movement of the conveyer to move the goods-support guard out of operative position.

2. In a machine of the character described, the combination, with a traveling conveyer, of a goods-support and goods-support guard, normally in operative position carried thereby, and stationary means adapted, in the movement of the conveyer to engage the

goods-support guard and move it out of operative position to enable the goods to be stripped from their support.

3. In a machine of the character described, the combination, with a traveling conveyer, of a goods-support, a stripper and a goods-support guard carried thereby, and means adapted in the movement of the conveyer to simultaneously move the goods-support guard out of operative position and actuate the stripper.

4. In a machine of the character described, the combination, with a traveling conveyer, of a goods-support, a combined stripper and a goods-support guard connected together to move in unison carried by said conveyer, and stationary means adapted in the movement of the conveyer to engage the stripper and thereby actuate the same to strip the goods from their support and simultaneously move the goods-support guard out of operative position.

5. In a machine of the character described, in combination, a goods-support and a pivoted arm adapted to cover the end of said goods-support, and means to swing said arm on its pivot-point away from the goods-support.

6. In a machine of the character described, in combination, a goods-support, a goods-support guard movable in and out of operative position, a stripping device traveling with the goods-support, said stripping device being supported so as to have a movement along said goods-support, said guard and stripper being connected so as to move in unison, and means to move said guard and stripper.

7. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison and means to move said arms on their pivot.

8. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with and surrounding said goods-support, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison and means to move said arms on their pivot.

9. In a machine of the character described, in combination, the conveyer and a goods-support carried thereby, a pivoted arm carried by the conveyer and adapted to cover the end of said goods-support, a cam in line of travel of said arm and adapted to move it on its pivot.

10. In a machine of the character de-

scribed, in combination, the conveyer and a goods-support carried thereby, a pivoted arm carried by the conveyer and adapted to cover the end of said goods-support, an angular cam in line of travel of said arm and adapted to move it on its pivot.

11. In a machine of the character described, in combination, a goods-support, a goods-support guard movable in and out of operative position, a stripping device traveling with the goods-support, said stripping device being supported so as to have a movement along said goods-support, said guard and stripper being connected so as to move in unison, a cam in line of travel of said guard and stripper and adapted to move them.

12. In a machine of the character described, in combination, a goods-support, a goods-support guard movable in and out of operative position, a stripping device traveling with the goods-support, said stripping device being supported so as to have a movement along said goods-support, said guard and stripper being connected so as to move in unison, an angular cam in line of travel of said guard and stripper and adapted to move them.

13. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, a cam in line of travel of said arms and adapted to move them on their pivot.

14. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, an angular cam in line of travel of said arms and adapted to move them on their pivot.

15. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with and surrounding said goods-support, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, a cam in line of travel of said arms and adapted to move them on their pivot.

16. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with and surrounding said goods-support, said stripping-arm having a movement

upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, an angular cam in line of travel of said arms and adapted to move them on their pivot.

17. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a slotted portion through which said goods-support passes, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, a cam in line of travel of said arms and adapted to move them on their pivot.

18. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a slotted portion through which said goods-support passes, said stripping-arm having a movement upon its pivot along

said goods-support, said stripping-arm and guard-arm being connected to move in unison, an angular cam in line of travel of said arms and adapted to move them on their pivot.

19. In a machine of the character described, in combination, a goods-support, a pivoted guard-arm adapted to cover the end of the support, a pivoted stripping-arm traveling with said goods-support, said stripping-arm having a slotted portion through which said goods-support passes, said stripping-arm having a movement upon its pivot along said goods-support, said stripping-arm and guard-arm being connected to move in unison, and means to move said arms on their pivots.

In testimony of which invention I have hereunto set my hand, at Philadelphia, on this 12th day of January, 1905.

WILLIAM M. BARNES.

Witnesses:

M. M. HAMILTON,
T. B. WOOD.