

(No Model.)

C. A. BRYANT.
SAFETY PIN.

No. 531,458.

Patented Dec. 25, 1894.

Fig. 1.

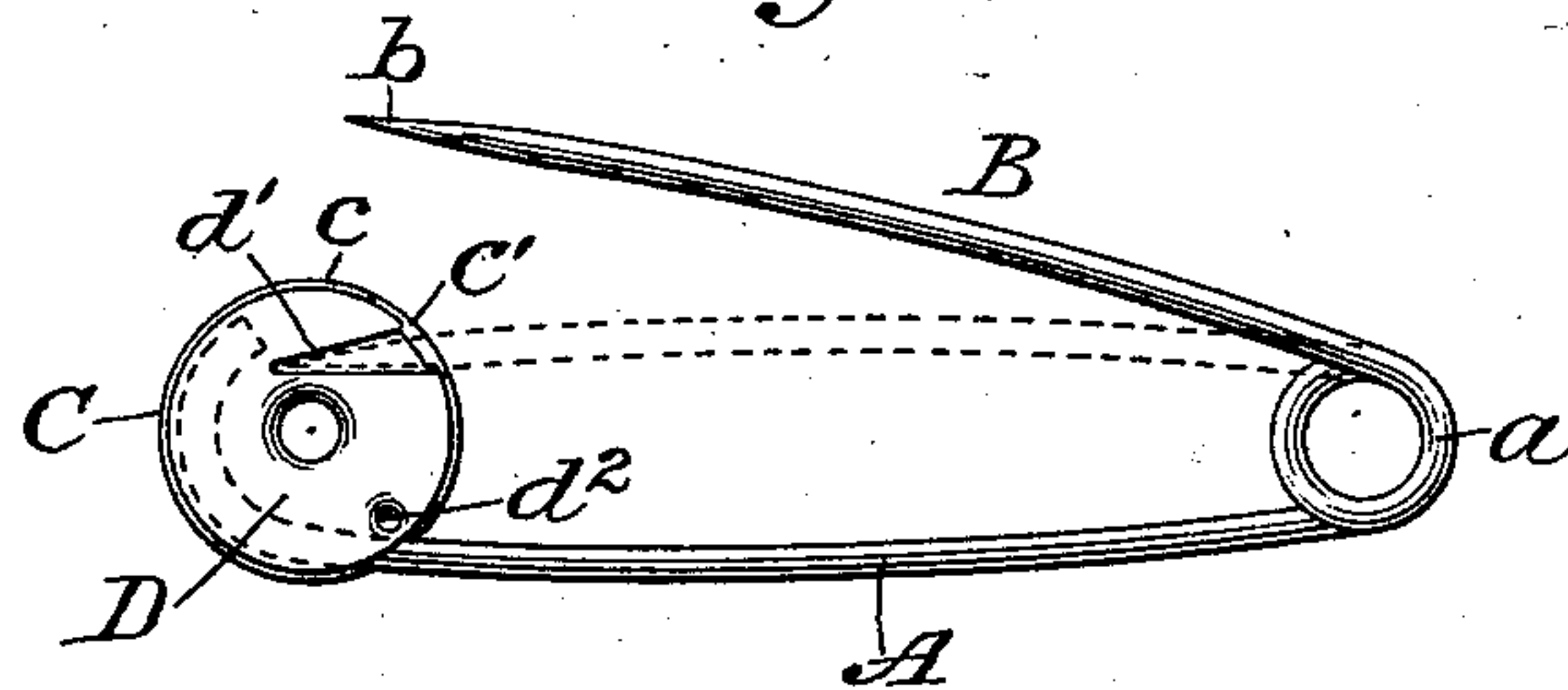


Fig. 2.

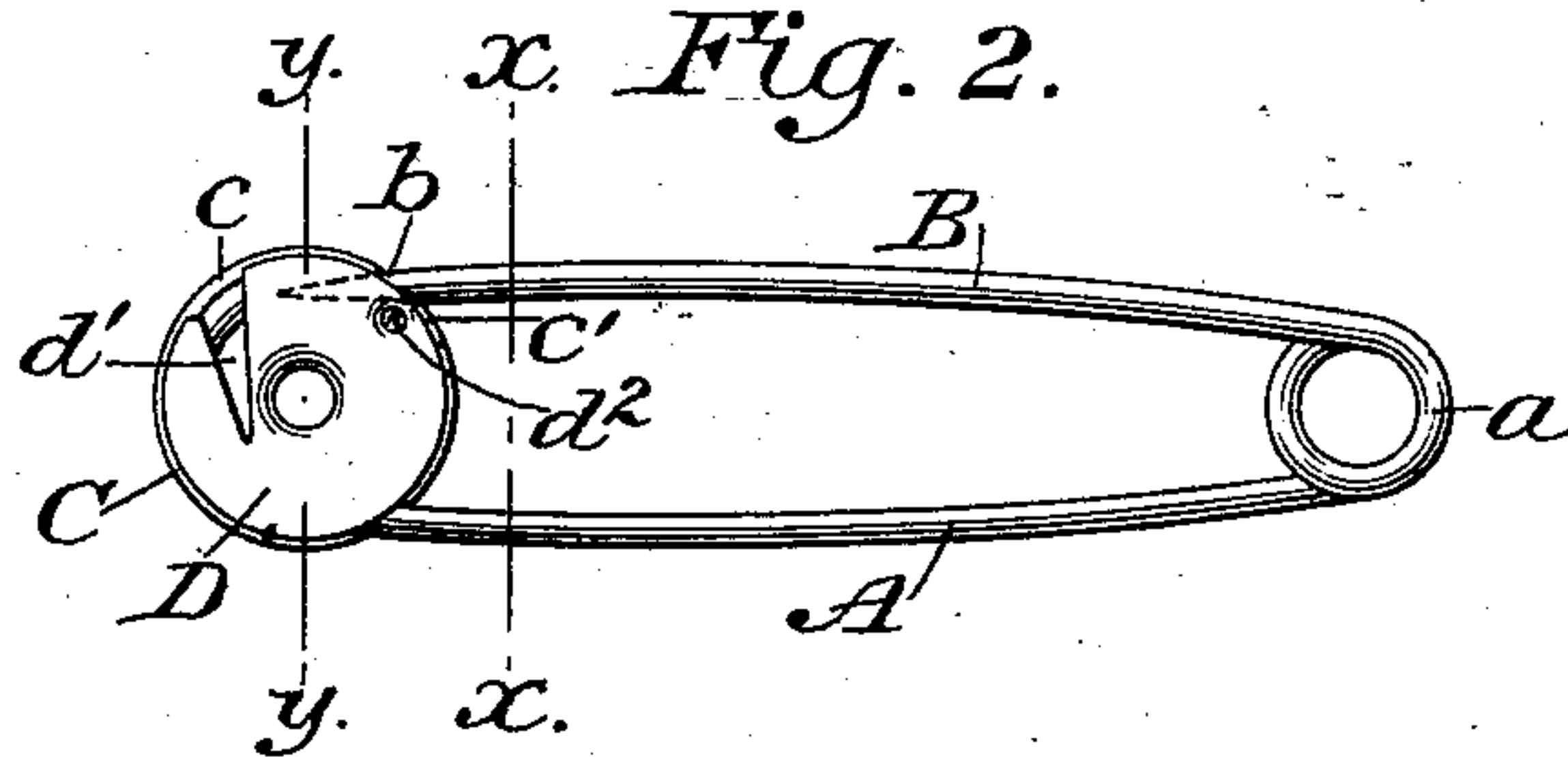


Fig. 3.

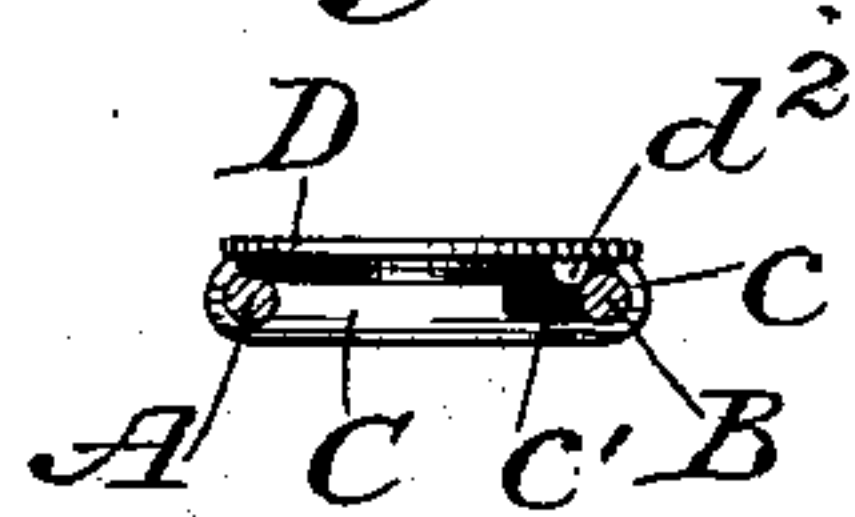
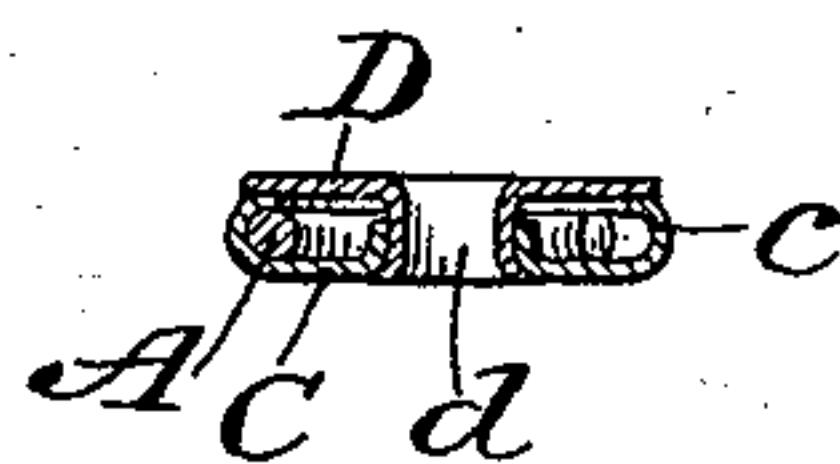


Fig. 4.



Attest:

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UNITED STATES PATENT OFFICE.

CHARLES A. BRYANT, OF WAKEFIELD, MASSACHUSETTS, ASSIGNOR TO THE
CONSOLIDATED SAFETY PIN COMPANY, OF BLOOMFIELD, NEW JERSEY.

SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 531,458, dated December 25, 1894.

Application filed August 14, 1894. Serial No. 520,240. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BRYANT, of Wakefield, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Safety-Pins; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to safety pins or other fastening devices of like character and has for its object to provide improved means whereby the accidental disengagement of the point of the pin from the hood by which it is retained in use may be prevented positively.

The construction in which the invention consists is hereinafter described and is represented in the accompanying drawings, in which—

Figure 1 is a side view of a safety pin embodying the improvement, the guard being represented in position to permit the release of the pin point and the latter being shown in full lines in the open position and by dotted lines in engagement with the hood or shield. Fig. 2 is a side elevation of the same, the pin point being represented as locked in the hood or shield. Fig. 3 is a section on the line $x-x$ of Fig. 2. Fig. 4 is a section on the line $y-y$ of Fig. 2.

The safety pin or other device of like character to which my invention is applied may be of any ordinary or convenient form and as represented in the drawings comprises a member A and a member B, the two being preferably connected by a spring coil a . The member A carries the hood or shield C with which the pin point or end b of the member B is adapted to be engaged.

The hood or shield C consists of a disk-like body having a flange c turned over to form a rest, stop or cover for the pin point b and to form a convenient means of attachment of the end member A. At c' the flange is cut away to permit the movement of the pin point into the plane of the flange to engage its upper portion. Under the ordinary conditions of use the pin point would remain in engagement with the hood or shield without the addition of a guard to prevent its disengage-

ment, but it not infrequently happens that pressure is brought to bear upon the pin point in such a direction as to effect its disengagement unless means are provided to prevent it. As before stated it is the object of my invention to provide such means, and the means devised comprise a disk-like guard which is slotted or notched and is rotatable with respect to the hood or shield to permit the passage of the pin point into engagement with such hood or shield or prevent its passage out of the same. The body of the hood or shield prevents disengagement of the pin point on one side and it is accordingly necessary to apply the guard only to the open side of the hood or shield. The guard consists of a plate D which is mounted to rotate upon or with respect to the hood or shield C, being formed for this purpose with a shank d which enters a hole in the hood or shield C in the manner of an eyelet. The locking guard is also provided with an opening d' which, as indicated in Fig. 1, may be brought into line with the pin point when the latter is in the position indicated by dotted lines to permit its introduction into the hood or shield. Thereafter the guard may be turned into some other position, as indicated in Fig. 2, to bring the opening d' out of line with the pin point and therefore to prevent positively the disengagement of the latter from the hood. The friction between the guard D and the hood or shield C may be relied upon to prevent accidental movement of the former. I may also form the guard with an inward projection or lug d^2 which will form a positive stop for engagement with the member A when the guard is moved in one direction or with the pin point b when the guard is moved in the opposite direction after the pin point has been engaged by the hood.

It will be observed that not only is my improved device reliable in operation, affording an absolute prevention against the accidental disengagement of the pin point, but it is also extremely easy to operate, is not likely to get out of order, and has no projecting parts to catch in the clothing or to chafe the wearer. The hood or shield is substantially of the same shape as that of an ordinary pin, being thin and flat and standing in the same plane

with the two members of the pin. The disk-like guard is also thin and flat and takes up very little space, being parallel with the plane of the two members of the pin. It is easily
5 rotated by applying the finger or thumb to its broad surface while at the same time it is not likely to be accidentally rotated.

I claim as my invention—

1. In a safety pin or other device of like
10 character, the combination with a disk-like hood or shield having an opening to permit the passage of the pin point thereinto and secured to the pin in the same plane with the two members thereof, of a disk-like guard
15 pivoted upon the hood or shield to rotate with respect thereto and parallel therewith, and having an opening to permit the passage of the pin point, whereby the guard may be rotated with respect to the hood or shield to
20 prevent or permit the movement of the pin point from said hood or shield, substantially as shown and described.

2. In a safety pin or other device of like
25 character, the combination with a disk-like hood or shield secured to the pin in the same plane with the two members thereof and having a flange notched to receive the pin point, of a disk-like guard pivoted upon the hood or shield to rotate with respect thereto and

parallel therewith and having an opening to
30 permit the passage of the pin point, whereby the guard may be rotated with respect to the hood or shield to prevent or permit the movement of the pin point from said hood or shield, substantially as shown and described. 35

3. In a safety pin or other device of like character, the combination with a disk-like hood or shield secured to the pin in the same plane with the members thereof and having a flange notched to receive the pin point, of a
40 disk-like guard pivoted upon the hood or shield to rotate with respect thereto and parallel therewith and having an opening to permit the passage of the pin point, whereby the guard may be rotated with respect to the hood
45 or shield to prevent or permit the movement of the pin point from said hood or shield, said guard also having a projection to limit its movement by contact with fixed parts of the pin, substantially as shown and described. 50

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES A. BRYANT.

Witnesses:

EUGENE C. BRYANT,
FRANK H. BRYANT.