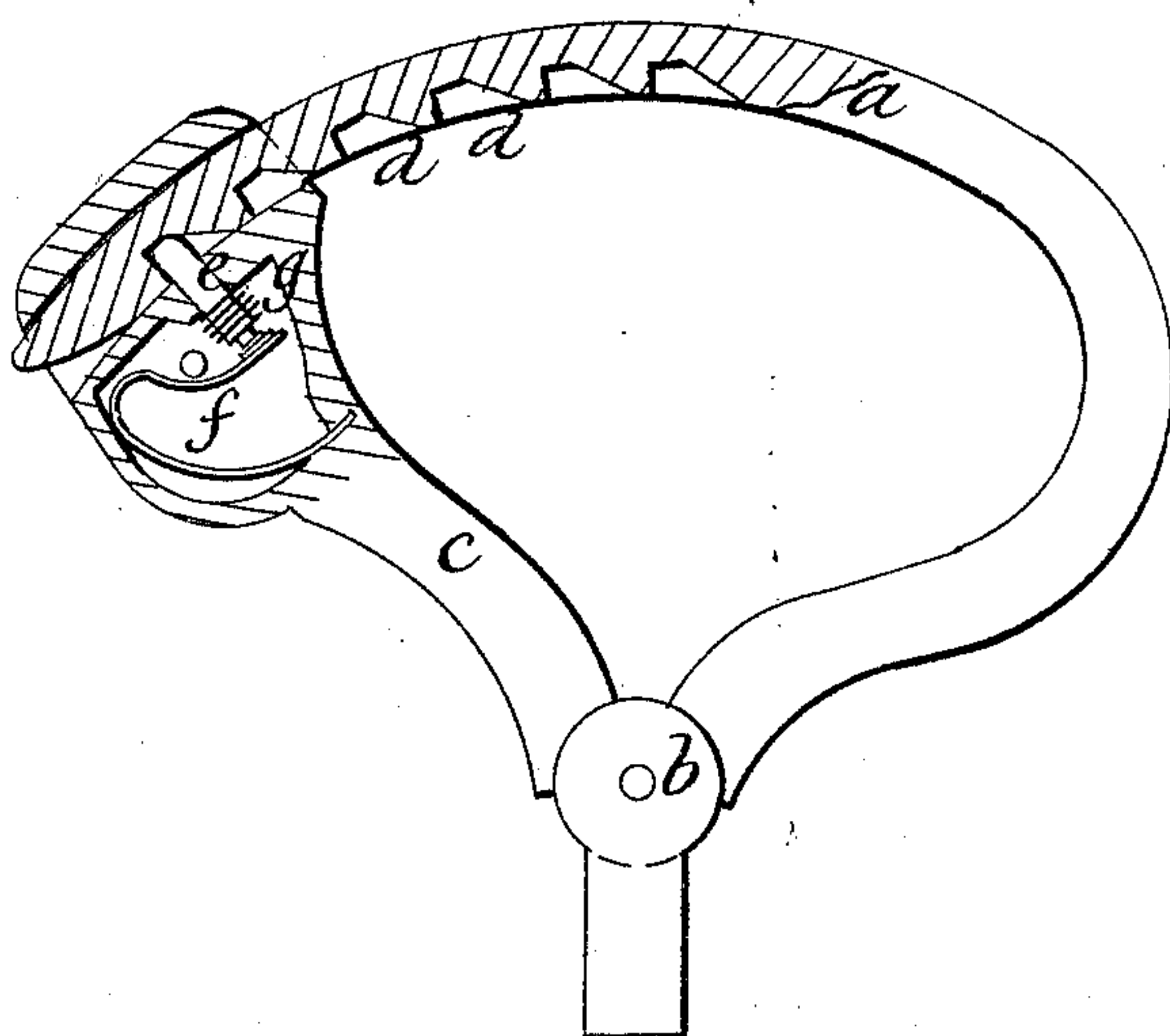


O. C. Phelps,
Handcuff,
No 56,463, Patented July 17, 1866.



Witnesses:

J. J. Munro
John Wild

Inventor.

O. C. Phelps

UNITED STATES PATENT OFFICE.

O. C. PHELPS, OF NEW YORK, N. Y.

IMPROVED ADJUSTABLE HANDCUFF.

Specification forming part of Letters Patent No. **56,463**, dated July 17, 1866.

To all whom it may concern:

Be it known that I, O. C. PHELPS, of the city, county, and State of New York, have invented certain Improvements in Adjustable Handcuffs and Shackles; and I do hereby describe and ascertain my said improvements as follows, referring to the drawing, which shows a sectional view of the same.

Heretofore handcuffs have been made consisting of a segment-bar connected with a permanent radial bar so curved as to form a section of a handcuff, the point of the center of radiation being a joint that connected another curved bar therewith, which had a mortise through it for the segment-bar to pass through. In these particulars my improvement is like said previous device. The bolt of the lock being formed of a part of the spring and inclined, the lock was made insecure and easily picked.

My improvements are to remedy these defects and render the handcuff more secure, lighter, and more compact, while retaining all its efficiency.

It is constructed as follows: The segment-piece *a* has recesses or notches *d* on the inner or concave side next the wrist, and the lock is located in a recess between the segment and the center joint, *b*, in the movable arm *c*, the portion of the movable arm beyond the mortise through which the segment passes

being only just large enough for strength and rounded off, so as to afford no projection for prying off the handcuff, and, the catches being on the concave side next the wrist, prevents the insertion of anything to spring the bolt in that direction.

As a further security, I form my lock of a radial spring-bolt, actuated by a spring that forms no part thereof. This bolt *e* is forced outward in a radial line by a spring, *f*, there being a light spiral spring, *g*, to retract it when the spring *f* is forced back by the key.

By this construction and arrangement of the parts, bringing the lock into direct contact with the wrist and compacting the parts, I add greatly to the security of the handcuff and improve its construction and lighten it very considerably, while increasing its strength.

I do not claim placing the lock upon the inside of the bow or long section *a*; but

What I do claim, and desire to secure by Letters Patent, is—

The spring *f*, spiral spring *g*, and sliding bolt *e*, arranged so that said bolt shall catch into notches on the inner or concave side of the bow or long section *a*, substantially as described.

O. C. PHELPS.

Witnesses:

J. J. GREENOUGH,
JOHN WILD.