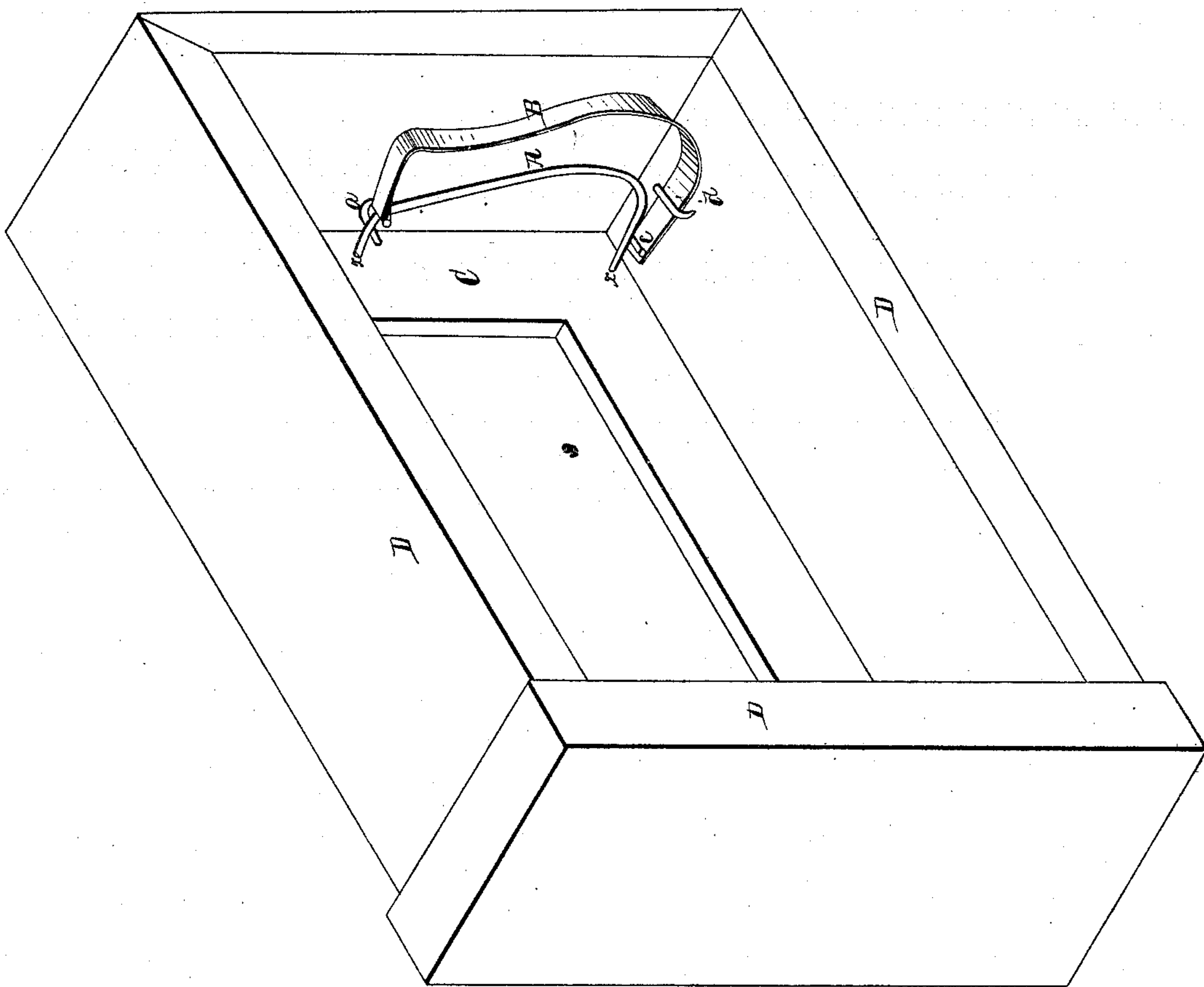


J. Barkley
Door Spring.
N^o 22,540. Patented Jan. 11, 1859.



Witnesses.
L. Macnish
A. A. Yeatman

Inventor.
James Barkley
per G. M. Alexander atty

UNITED STATES PATENT OFFICE.

JAMES BARKLEY, OF WESTON, MISSOURI.

DOOR-SPRING.

Specification of Letters Patent No. 22,540, dated January 11, 1859.

To all whom it may concern:

Be it known that I, JAMES BARKLEY, of Weston, in the county of Platte and State of Missouri, have invented certain new and
5 useful Improvements in Compensating Door-Springs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings and to the letters of refer-
10 ence marked thereon.

The nature of my invention consists in the arrangement of the spring and rod in the manner hereinafter described.

In the annexed drawing which is a perspective view of the door lying down upon its side, D represents the frame or casing of the door.

C, is the door.

A, is a bent rod of metal the two ends of which are secured in the door near its top one end of said rod being inserted near the back of the door, and the other being inserted near the front.

B, is a spring one end of which is secured
25 to the casing in the position herein shown by means of two half staples one being driven into the casing above and the other below the spring the upper one projecting downward and the lower one upward, and the spring
30 being caught between the two is held securely and may be easily taken away or returned to its position. The other end of this spring is provided with a hook *a*, said hook catching upon the rod, B, as is represented in the
35 drawing. The rod B, sets at a sufficient distance from the door to allow of the hook sliding on it from one end to the other.

It will be perceived that when the door is shut, the hook on the spring stands at the extremity of the rod, or the loop made by the
40 rod, nearest the front of the door,—and also that when the door is opened the hook slides back to the other side of the loop, at the back of the door. It is evident that when the door is shut, the leverage is greater than
45 when it is open, but when it is open the tension is greater than the leverage, and thus the leverage diminishes as the tension increases and vice versa.

The hook to the end of the spring enables
50 me to attach the spring to the door or detach it from the door very readily. If I wish to use the spring I attach, in an instant of time, and if I wish to dispense with it I can detach it as quickly.

I do not claim broadly the devices herein employed as I am aware that many forms and arrangements of these have been used but—

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

The employment of the spring B, which shall be provided with a hook *a*, at one end and which shall be secured to the casing at
65 the other by means of two half staples, thus making a spring which is adjustable at both ends, capable of being detached from either the door, or casing, in a moment of time as is herein specified.

JAMES BARKLEY.

Witnesses:

WM. W. GILLESPIE,
A. C. BELL.