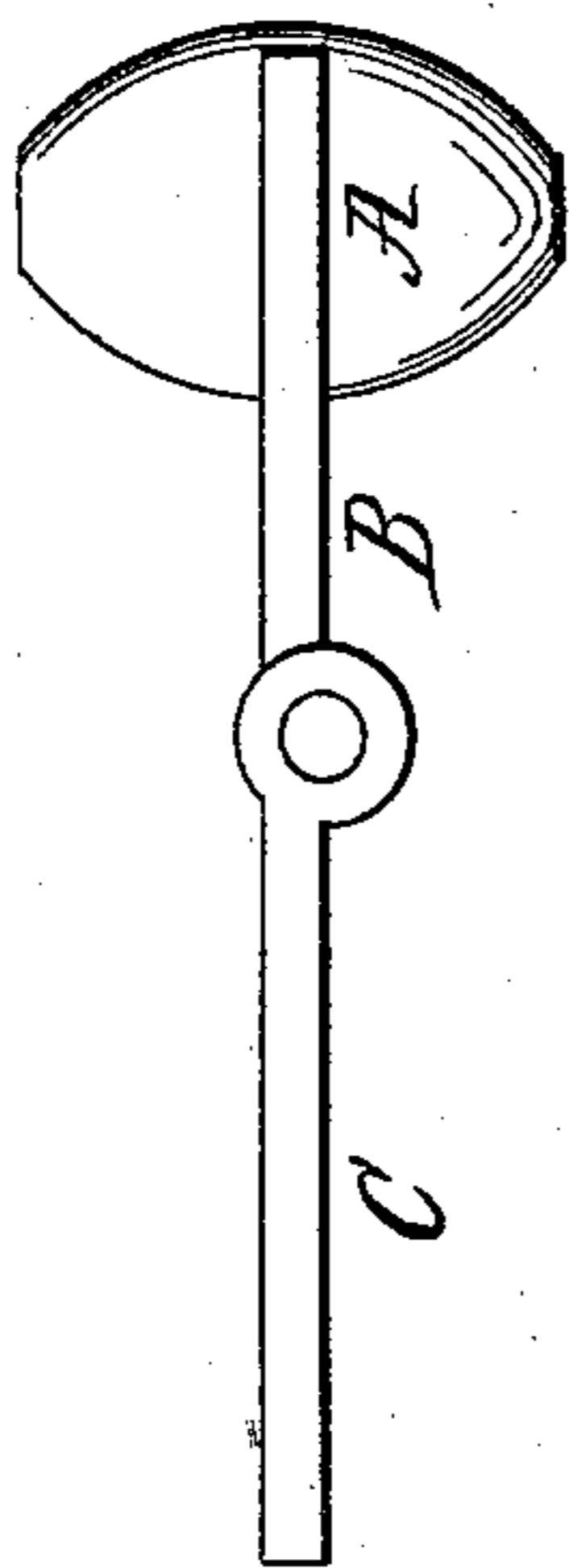
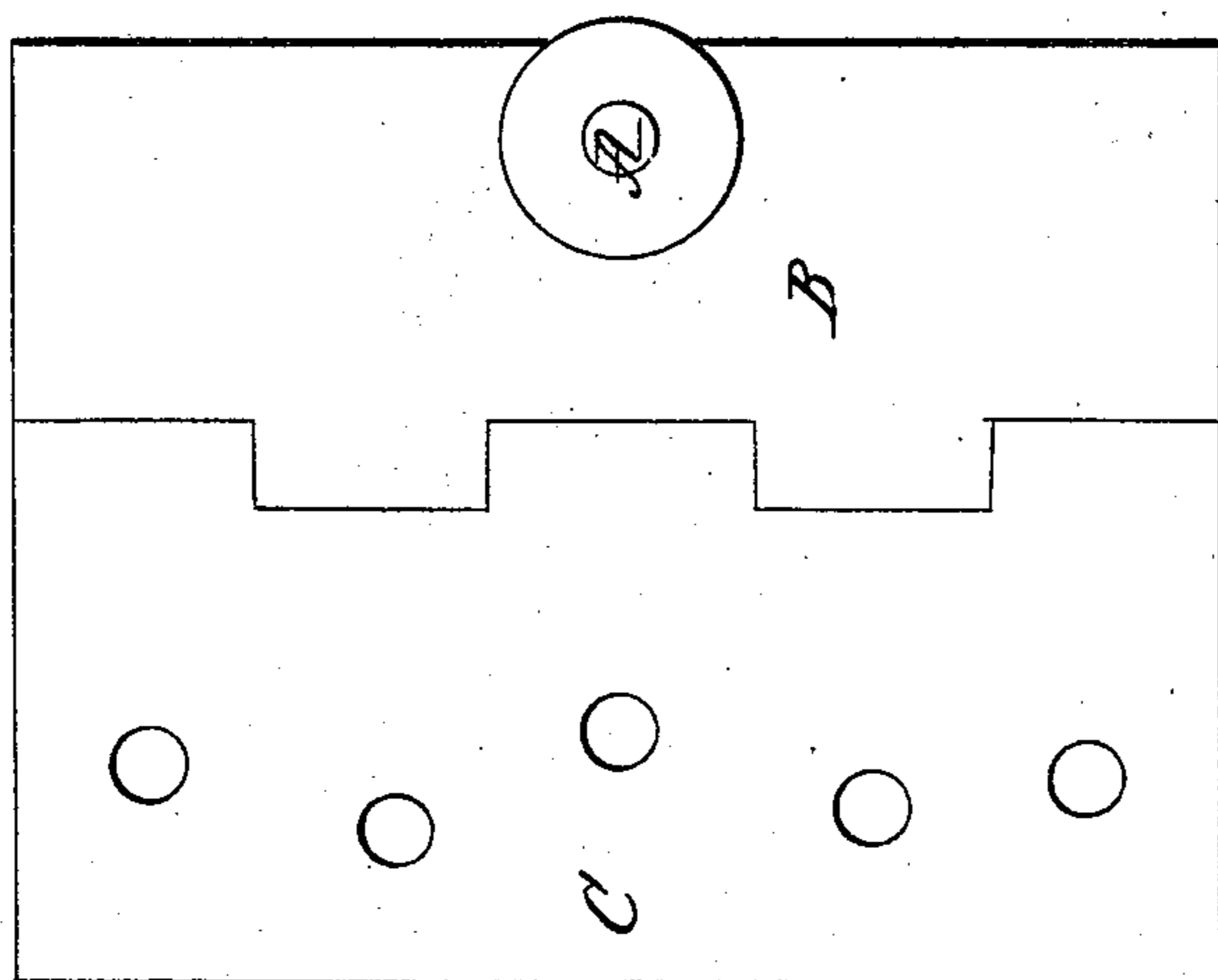


G. M. Ramsay,

Hinge.

N^o 14,167.

Patented Jan. 29, 1856.



UNITED STATES PATENT OFFICE.

GEO. M. RAMSAY, OF NEW YORK, N. Y.

HINGE.

Specification of Letters Patent No. 14,167, dated January 29, 1856.

To all whom it may concern:

Be it known that I, GEORGE M. RAMSAY, of the city, county, and State of New York, have invented a new, useful, and Improved
5 Hinge; and I do hereby declare the following to be a full, clear, and exact description of the construction and application of the same, the nature of which is the construction and application of an antifriction-
10 roller to a joint-hinge, whereby the hinge is rendered movable and also serves as a means of attachment, all of which is fully explained in the accompanying drawings and specification, wherein—

15 Figure 1, is a side view, and Fig. 2 an end view of the hinge, showing the anti-friction-roller A, A, near the center of the wing B, B, and when applied, or in use, is provided with a concave groove (in the back of the

hanging stile) equal to the convex surface 20 of said roller, and in which it is free to roll up and down, while the wing B, B, communicates with wing C, C, in front of the hanging stile by and through a small groove leading from the concave groove to the 25 front of said hanging stile, while the wing G, G, is made fast to whatever it is desired to be hung and swung.

Having thus fully set forth my invention what I claim and desire to secure by Letters 30 Patent of the United States is,

The anti-friction-roller A, in combination with a joint hinge, substantially in the manner and for purposes herein set forth.

GEORGE M. RAMSAY.

Witnesses:

WM. DIXEY,
FRANKLIN BROWN.