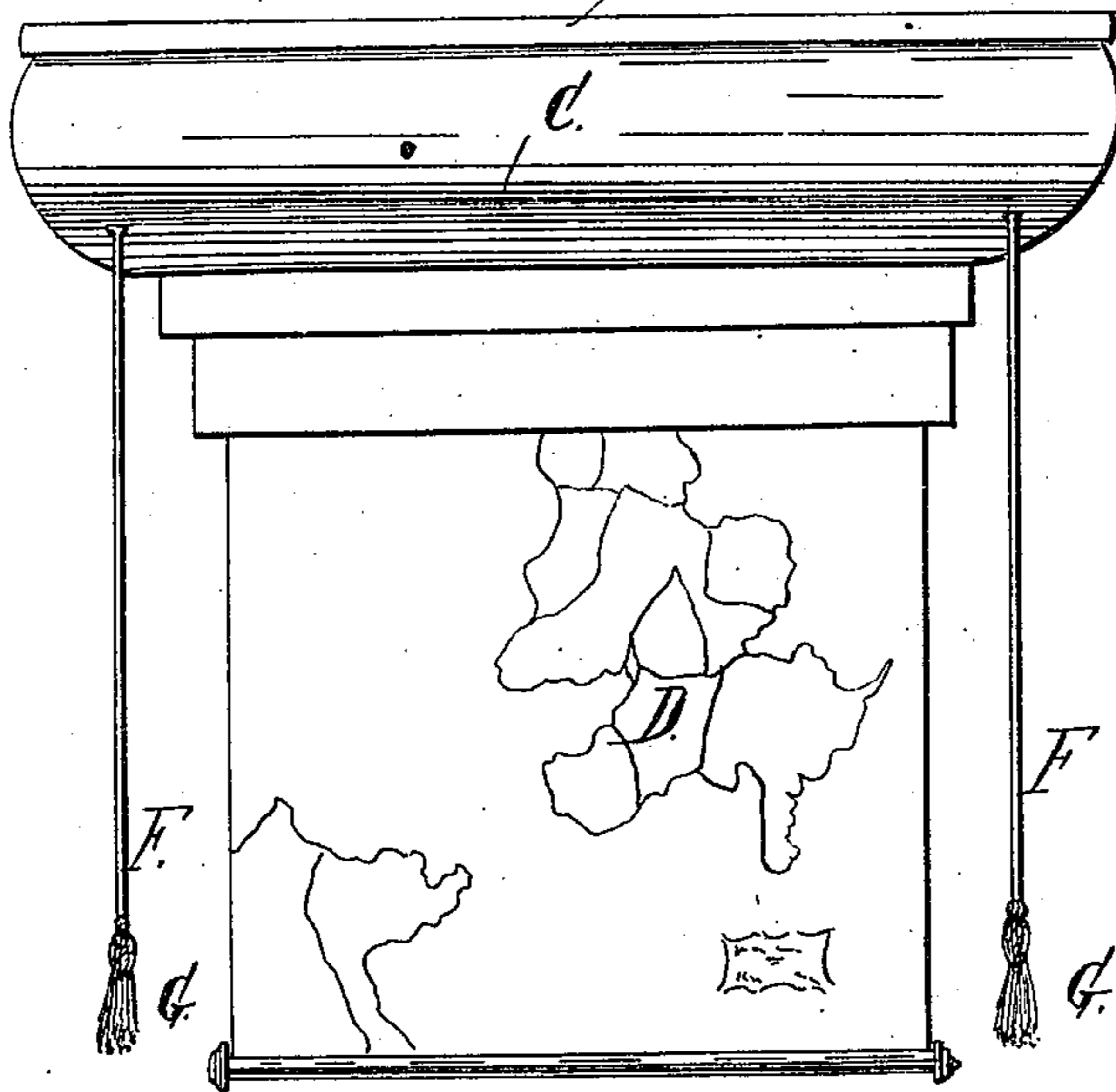
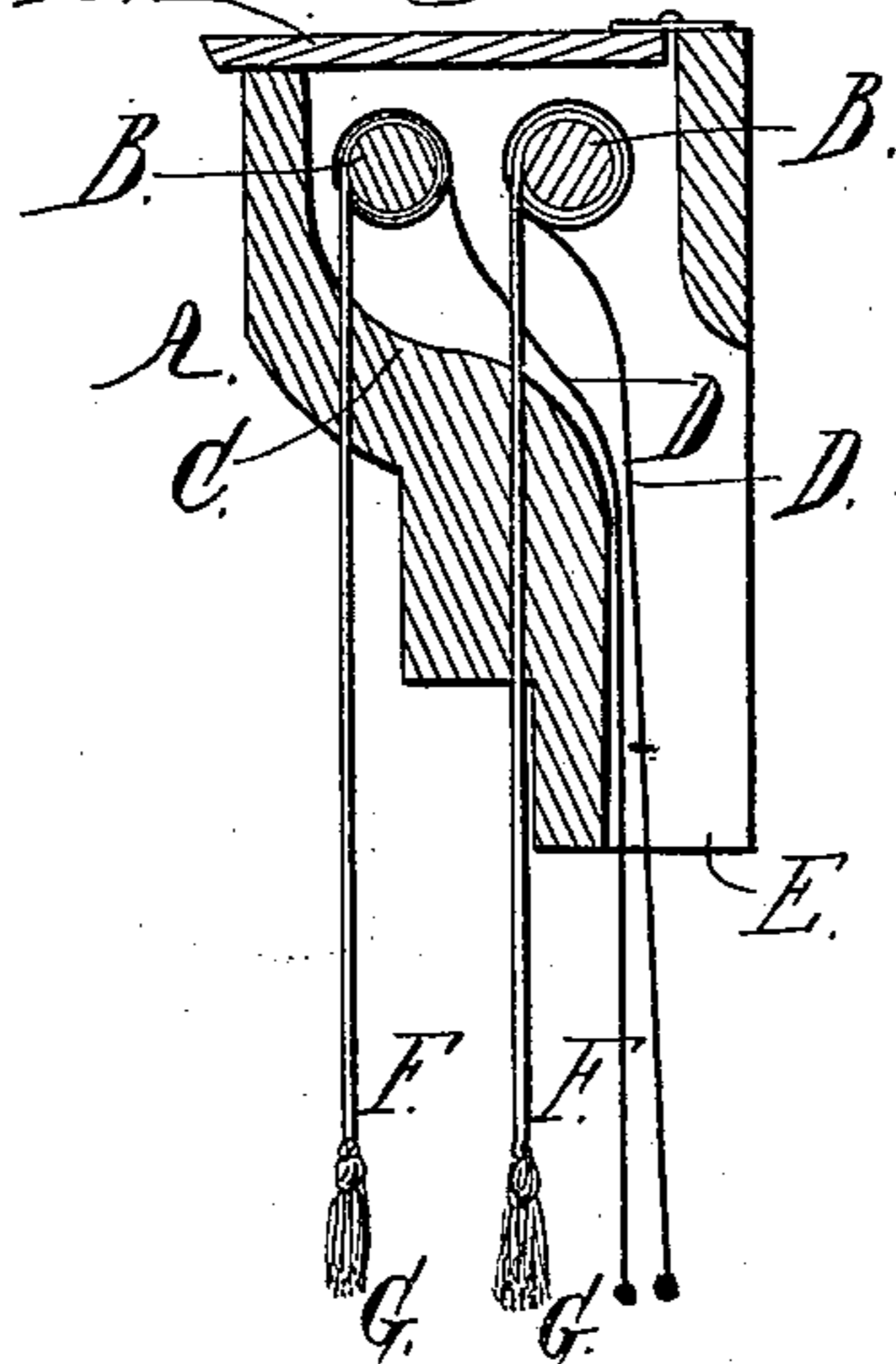


E.L. Hagar,
Chart Roller,
No 77,813, Patented May 12, 1868.

Fig 1. H.



H. Fig 2.



Witnesses;
Theodore
J. A. Service.

Inventor;
E. L. Hagar
Per [Signature]
Attorney.

United States Patent Office.

E. L. HAGAR, OF EMPIRE CITY, COLORADO.

Letters Patent No. 77,813, dated May 12, 1868.

IMPROVEMENT IN CHART-ROLLERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, E. L. HAGAR, of Empire City, in the county of Clear Creek, and Territory of Colorado, have made and invented a new and useful Improvement in Chart or Map-Roller; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The present invention relates to a roller for maps and other similar charts, and it consists in arranging the roller therefor within a case, that is suitably constructed to allow the map or other chart attached thereto to be rolled up or unrolled at pleasure, through and by means of cords and tassels, or other suitable devices, the said case, when the charts are rolled up, encasing the same, and protecting them from being soiled or injured.

In the accompanying plate of drawings, my improved roller for charts, &c., is illustrated—

Figure 1 being a front view of the same, and

Figure 2 a transverse vertical section, taken in the plane of the line *x x*, fig. 1.

A, in the drawings, represents my improved roller-device for maps and other charts, which, in the present instance, consists of two rollers B within a case, C, arranged so as to turn therein, and each roller provided with a map or chart, D, around which they are wound, and passing out, when unwound, through the opening E in the bottom of the said case C.

F, cords attached to rollers B at one end, and at their other passing out of case C, and provided with tassels G, for convenience in manipulating them.

H a cover to case C. This cover is hinged thereto, so as to be susceptible of being opened and closed at pleasure for an inspection and removal or insertion of the rollers B, as may be desired.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The chart-roller constructed as described, consisting of the case C having the hinged lid H, and adapted to receive the chart-rollers B, said chart passing through the curved opening E, their operating-cords F passing through separate openings in front of the charts, as herein shown and described.

The above specification of my invention signed by me, this 10th day of August, 1867.

E. L. HAGAR.

Witnesses:

GEO. C. MUNSON,
DAVID J. BALL.