No. 747,829. PATENTED DEC. 22, 1903.

F. ZIMMERMAN.

MAP HANGING DEVICE.

APPLICATION FILED MAR. 2, 1903.

NO MODEL.

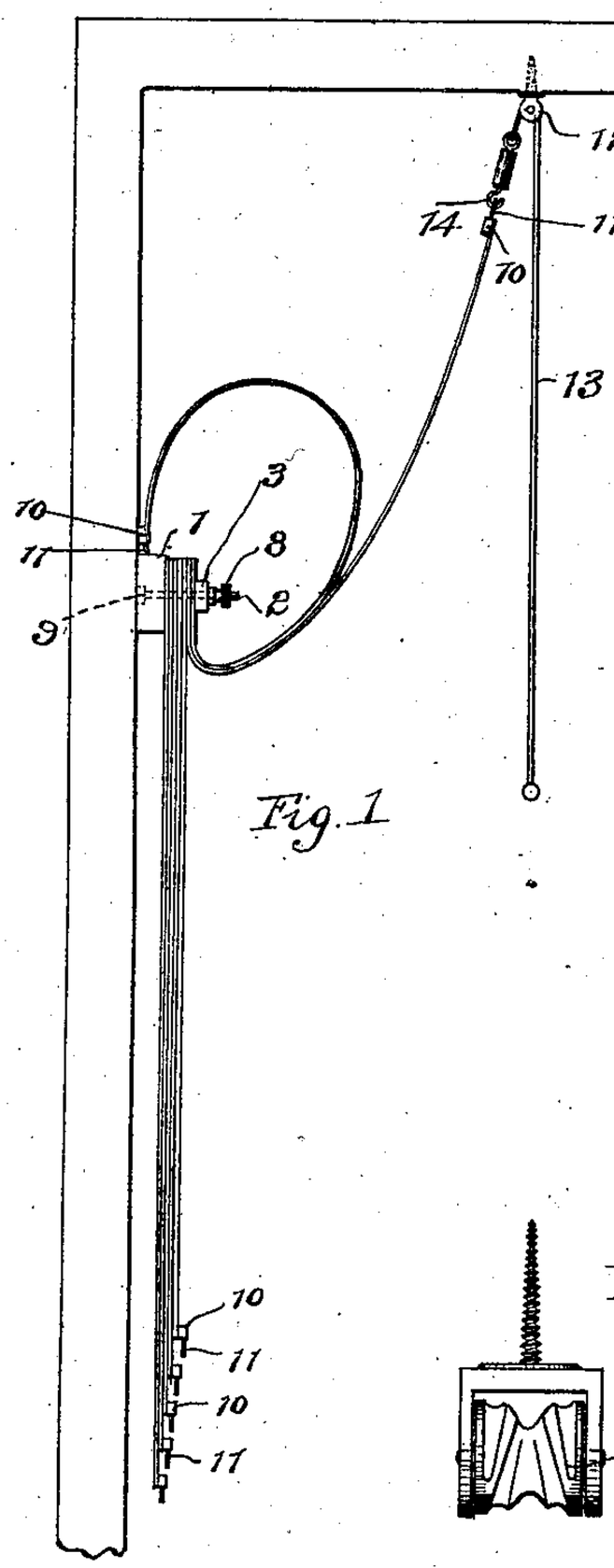


Fig. 1

Fig. 4

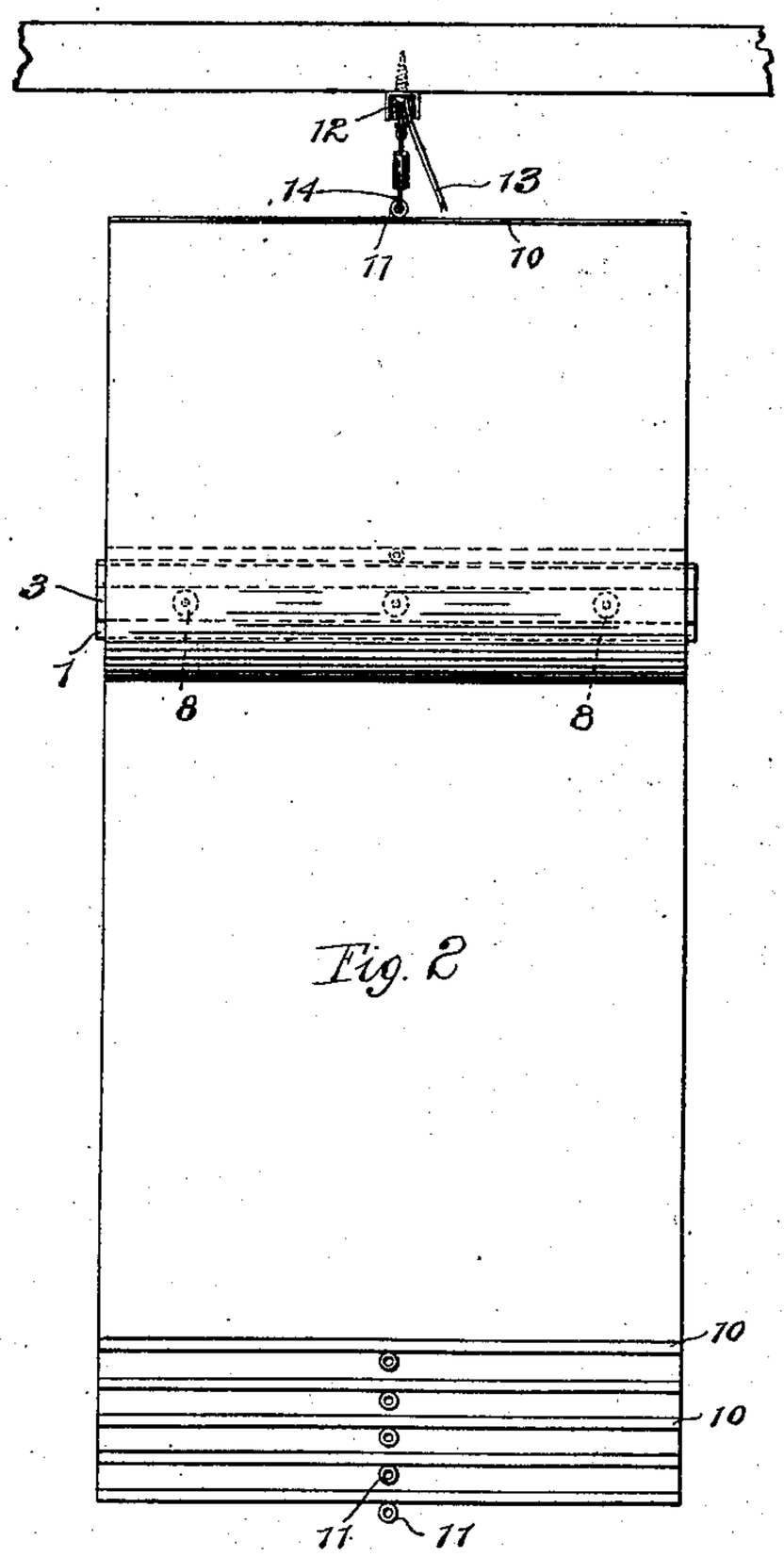
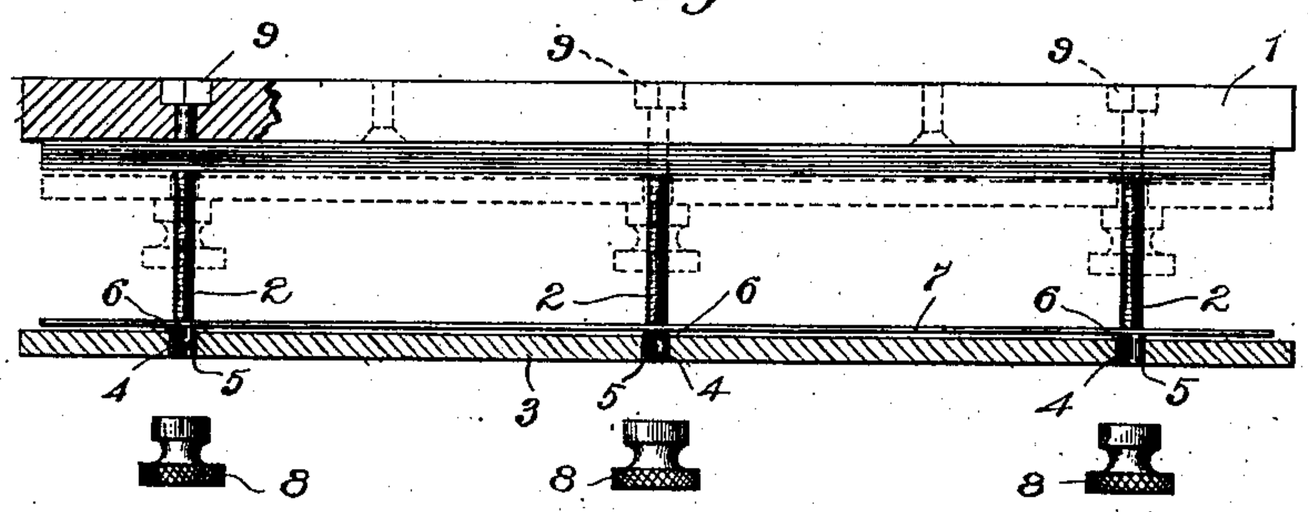


Fig. 2

Fig. 3.



Witnesses
Leonard W. Novander.
Charles J. Schmidt.

Inventor
Fred Zimmerman
By Charles A. Brown
Attorney

No. 747,829. Patented December 22, 1903.

UNITED STATES PATENT OFFICE.

FRED ZIMMERMAN, OF CHICAGO, ILLINOIS.

MAP-HANGING DEVICE.

SPECIFICATION forming part of Letters Patent No. 747,829, dated December 22, 1903.

Application filed March 2, 1903. Serial No. 145,633. (No model.)

To all whom it may concern:

Be it known that I, FRED ZIMMERMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Map-Hanging Devices, (Case No. 1,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to map-hanging devices, and has for its object a simplified construction for such a device and one to which maps, charts, or other display-sheets may be quickly and securely attached.

My improved device consists, primarily, of a base-mounting portion and a cap portion. The base portion may be fastened to a wall and has bolts projecting forwardly therethrough. The cap portion consists of a strip, preferably of wood, and is provided with holes therethrough spaced to register with the bolts projecting from the base portion. The maps or other display-sheets are clamped between said base portion and the cap portion by means of thumb-screws which engage the threaded ends of the bolts.

One feature of my improved device lies in means for cutting perforations in the maps as they are applied to the bolts. To this end I provide the holes in the cap portion with thin steel bushings, which at their inner ends are beveled to a sharp cutting edge, the cap-strip being held against the top of the map about to be hung, so that the bushings register with the ends of the bolts. By a slight push the sharp edges of the bushings, in conjunction with the ends of the bolts, perforate the map, which, together with the strip, are received by the bolts. The thumb-screws are now applied to the bolts and the map or maps securely clamped between the base and the cap. Each successive map may be hung a trifle higher than the preceding map and may be provided with rings at its lower edge. To display any one of the maps thus suspended, an ordinary cord-catch curtain-pulley may be screwed into the ceiling or into a projection extending from the device or from the wall, and by means of a cord passing through said pulley and having at its one end a hook the ring on the map just in front of the map it is desired to display may be engaged by this hook, whereupon all the maps in front of the desired map may be raised to disclose the desired map, the cord-catch pulley serving to hold the cord and the maps held thereby in any position.

I shall describe my invention more clearly by referring to the accompanying drawings, in which—

Figure 1 is a side view of the device, showing the manner of displaying a desired map. Fig. 2 is a front view showing the same as Fig. 1. Fig. 3 is a top view showing a map in the act of being applied to the bolts. Fig. 4 is a view of the pulley employed.

Like characters of reference refer to like parts throughout the figures.

A base-strip 1, which may be screwed or otherwise fastened to a wall, has extending forwardly therethrough a series of bolts 2 2, which bolts are preferably of steel and threaded at their ends. A cap-strip 3 is provided with a series of holes 4 4, spaced to register with the screws 2 2. These holes are provided with thin bushings 5 5, preferably of steel, and extending slightly beyond the inner edges 6 6 of the holes 4 4, these extended ends being beveled to a sharp cutting edge. The bushings also protect holes 4 4 against wear.

In Fig. 3 is shown the manner of applying a map 7 to the hanger. The cap-strip is held against the map, near the top edge thereof, the map and cap in this relation being held so that the bushing-openings register with the ends of the bolts. By pushing against the strip circular perforations are cut through the map by the sharp edges of the bushings, whereupon the map and the strip are received by the bolts. The perforations are thus clear cut and have unbroken edges, enabling the maps to hang from the bolts without danger of the material thereof beginning to rupture at their perforations. The thumb-screws 8 8 are now applied to the threaded ends of the bolts and screwed down to clamp the maps between the strip and the base. To prevent the bolts from turning as the thumb-screws are applied, the heads 9 9 thereof are rectangular and countersunk into the material of the base 1. The maps are preferably hung so that each map is a trifle higher than its

predecessor and may be provided at its lower edge with stiffening-strips 10 10, provided with rings 11 11.

To display a certain map, I preferably provide means whereby all the maps in front of such desired map are raised out of the way. This may conveniently be accomplished by the use of a cord-catch curtain-pulley 12, which may be screwed into the ceiling or into any other support. A cord 13, passing through such pulley is provided at its end with a hook 14, which hook engages the ring on the map directly in front of the map to be exhibited. By pulling the cord the maps hanging before the desired map are raised out of the way, and by pulling said cord toward either side it is caught by the pulley, and the raised maps are held in place.

The map-hanger may be made of any size and strength for the accommodation of any number of maps. Changes may also readily be made in the structure thereof without departing from the spirit of the invention, and

I therefore claim as new and desire to secure by Letters Patent—

1. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said base-strip for receiving maps to be suspended therefrom, a cap-strip adapted to be received by said bolts, and means associated with said cap-strip for cutting regular perforations through said maps.

2. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, means for cutting regular perforations in said maps, and a plurality of thumb-screws for engaging said bolts whereby to clamp the maps suspended from said bolts between said base and said strip, substantially as described.

3. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, means associated with said cap-strip for cutting regular perforations in said maps, and a plurality of thumb-screws for engaging said bolts whereby to clamp the maps suspended from said bolts between said base and said strip, substantially as described.

4. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, sharpened metallic bushings in said holes for perforating a map, and a plurality of thumb-screws for engaging the threaded ends of said bolts whereby maps suspended from said bolts are clamped between said base and said strip, substantially as described.

5. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, metallic bushings in said holes having their inner ends beveled to a cutting edge for perforating a map to be hung, and a plurality of thumb-screws for engaging the threaded ends of said bolts whereby maps suspended from said bolts are clamped between said base and said strip, substantially as described.

6. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip, said bolts having rectangular heads countersunk into said base, a cap-strip having holes registering with said bolts to adapt said strip to be received by said bolts, metallic bushings in said holes, said bushings extending slightly beyond the inner edge of said strip, said extending parts being beveled to a sharp cutting edge for perforating the maps to be hung, and a plurality of thumb-screws for engaging the threaded ends of said bolts whereby maps suspended from said bolts may be clamped between said base-strip and said cap-strip, substantially as described.

7. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, means for perforating a map, a plurality of thumb-screws for engaging said bolts whereby to clamp the maps suspended from said bolts between said base and said strip, and means for carrying out of the way any number of the suspended maps whereby to expose any desired map, substantially as described.

8. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to register with said bolts to adapt said strip to be received by said bolts, means for perforating a map, a plurality of thumb-screws for engaging said bolts whereby to clamp the maps suspended from said bolts between said base and said strip, and pulley mechanism for raising and holding out of the way any number of maps whereby to fully expose to view any desired map, substantially as described.

9. In a device of the class described, the combination of a base-strip, a plurality of bolts extending forwardly from said strip for receiving maps to be suspended therefrom, a cap-strip provided with holes spaced to reg-

ister with said bolts to adapt said strip to be received by said bolts, means for perforating a map, a plurality of thumb-screws for engaging said bolts whereby to clamp the maps suspended from said bolts between said base and said strip, and pulley mechanism consisting of a cord-catch pulley adapted to lock a cord passing therethrough in any position, and a hook on said cord adapted for engagement with a ring at the lower edge on any one of said maps whereby any number of said maps may be raised and held out of the way to expose any desired map, substantially as described.

In witness whereof I hereunto subscribe my name this 26th day of February, A. D. 1903.

FRED ZIMMERMAN.

Witnesses:

HARVEY L. HANSON,

CHARLES J. SCHMIDT.