

G. DETRICK, E. R. ALBAUGH, J. C. EICHER & J. M. NAUGLE.

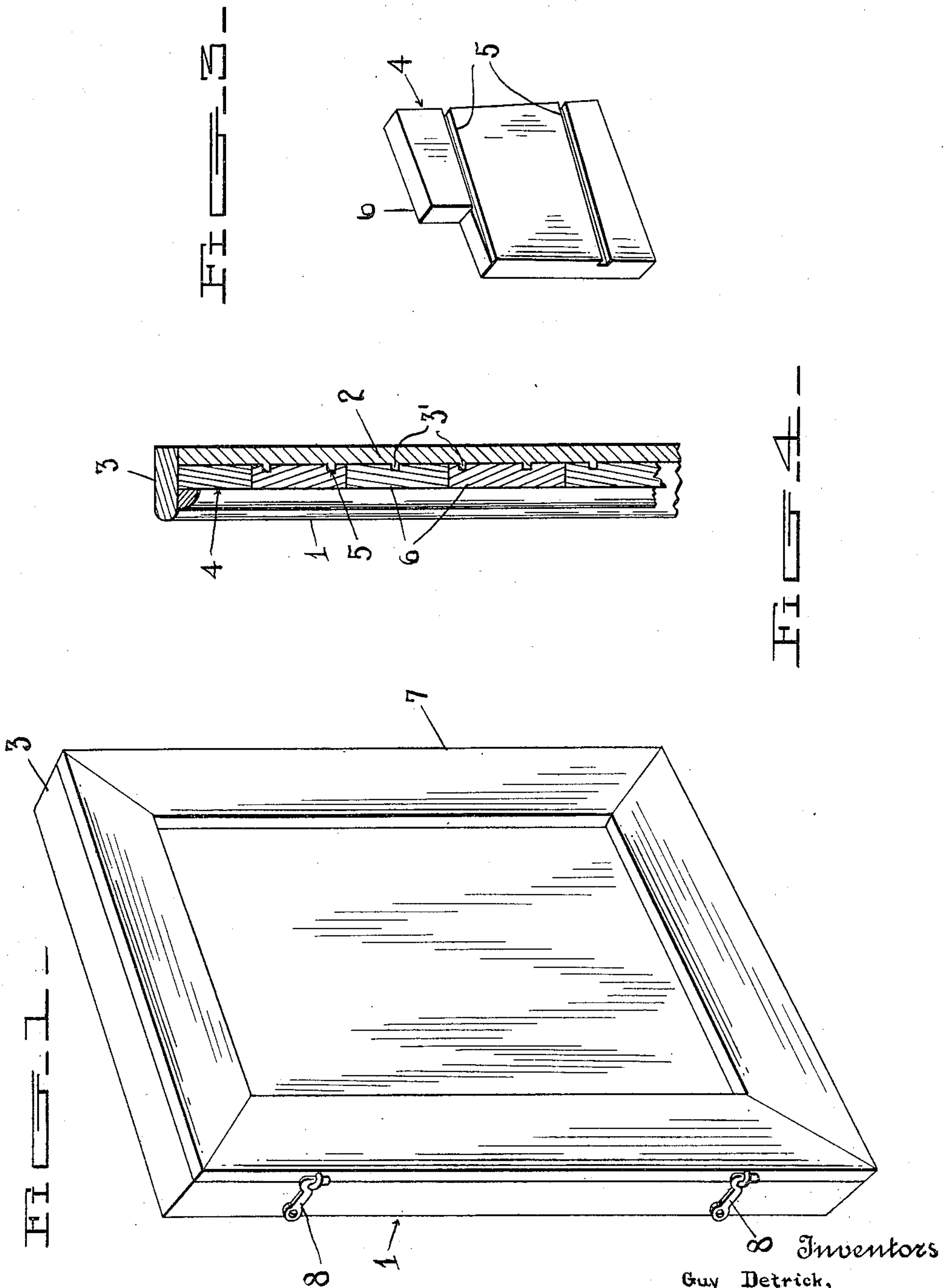
SECTIONAL MAP.

APPLICATION FILED OCT. 6, 1910.

993,228.

Patented May 23, 1911.

2 SHEETS—SHEET 1.



Witnesses

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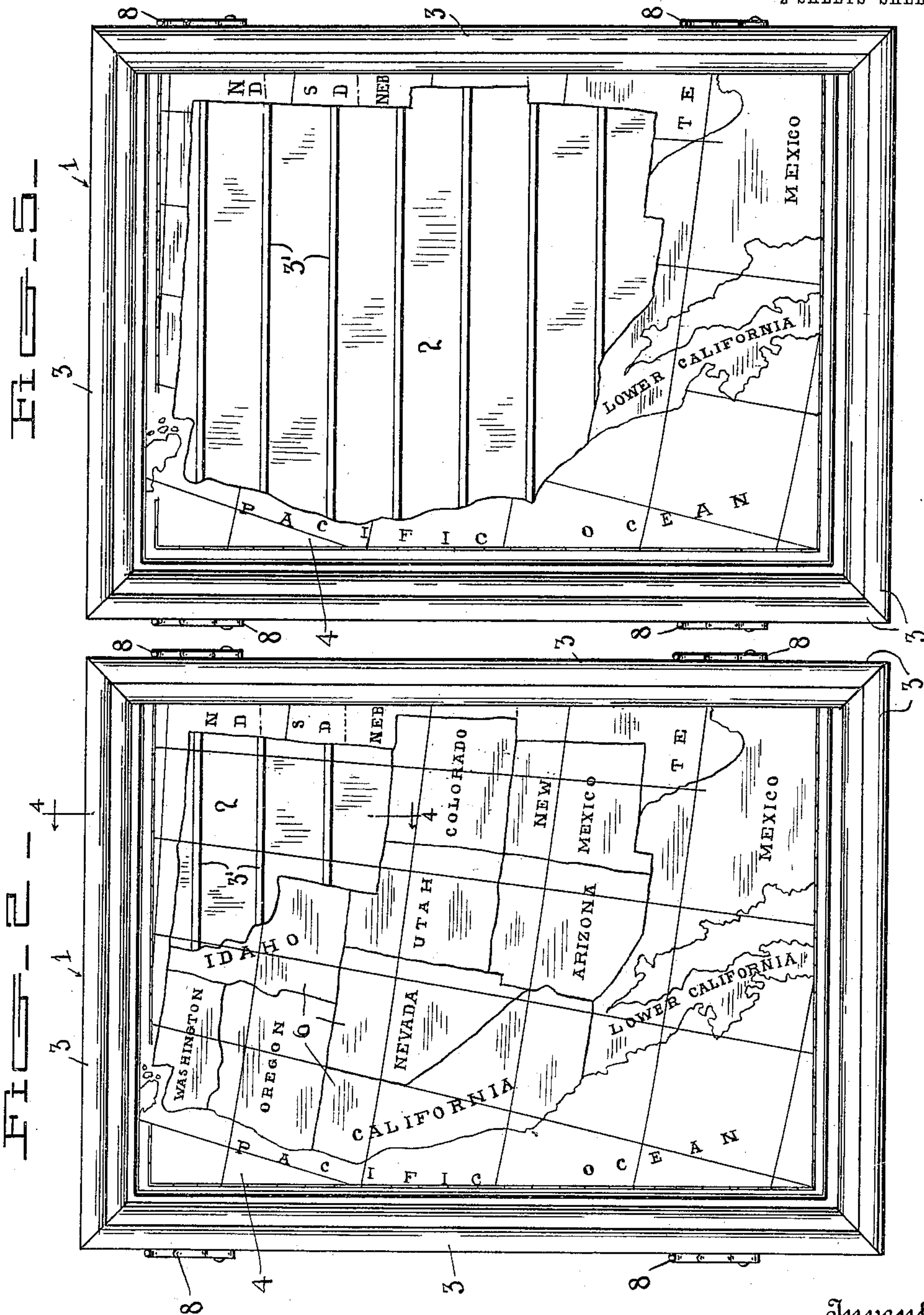
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UNITED STATES PATENT OFFICE.

GUY DETRICK, ERNEST R. ALBAUGH, JOSEPH C. EICHER, AND JOHN M. NAUGLE, OF
BELLEFONTAINE, OHIO.

SECTIONAL MAP.

993,228.

Specification of Letters Patent.

Patented May 23, 1911.

Application filed October 6, 1910. Serial No. 585,691.

To all whom it may concern:

Be it known that we, GUY DETRICK, ERNEST R. ALBAUGH, JOSEPH C. EICHER, and JOHN M. NAUGLE, citizens of the United States, residing at Bellefontaine, in the county of Logan and State of Ohio, have invented certain new and useful Improvements in Sectional Maps; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in sectional maps.

One object of the invention is to provide a map of this character having an improved means whereby the sections may be secured in a frame in such manner as to permit the quick and easy removal and replacing of the same.

Another object is to provide a map of this character the sections of which are formed of laminated wood whereby the same will be strong and durable in construction, light in weight and will be prevented from warping or splitting.

A further important object of the invention is in the provision of means whereby the various conforming sections may be assembled or separated without removal of the same from the frame.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a perspective view of the frame or casing of the map showing the cover of the casing in closed position; Fig. 2 is a front view of the map and frame showing the cover and a part of the sections removed; Fig. 3 is a rear perspective view of one of the sections; Fig. 4 is a cross sectional view of a portion of the supporting frame and map on the line 4—4 of Fig. 2; Fig. 5 is a front view of the frame with all of the sections removed therefrom and illustrating the manner in which the sections are secured in the frame.

Referring more particularly to the drawings, 1 denotes the rectangular frame or casing of the map, said frame comprising a flat back piece 2 around the outer edges of which

are arranged outwardly projecting flanges 3 which form the border of the map. The outer edges of said flanges may have formed thereon an ornamental design if desired. On the inner side of the back piece 2 is formed a series of parallel transversely disposed ribs or tongues 3 which are spaced a suitable distance apart and project a suitable distance beyond the inner surface of the back as shown said rods extending the full width of the back of the frame.

The board or plate 4 on which the map is shown is formed of a series of thin sheets or layers of wood glued together with the grain of the layers running in different directions thus providing a strong, durable construction which will not warp or split and which permits the board or plate to be made thin thereby insuring lightness. The map may be printed on paper and pasted on the board or plate or may be printed directly on the outer side of the board and may illustrate a country, State, province or town or any other design or picture, said map in the present instance illustrating a section of the United States.

On the rear side of the board or plate 4 is formed a series of transversely disposed grooves or channels 5 which are adapted to be engaged with the ribs or tongues 3 on the inner surface of the back board 2. The plate or board 4 is cut or sawed into a plurality of sections 6 each of which may represent a portion of the map. Said sections are here shown as being cut or sawed along the boundary lines of the various States shown on the map.

By constructing and arranging the tongues and grooves of the frame and sections as herein shown and described it will be obvious that any number of the sections may be removed and the others retained in place and it will also be seen that when all of the sections are removed that the replacing thereof may be begun at any point in the frame or part of the map and that the remaining sections may be filled in, in any direction from the starting point. It is further to be observed that when the sections are properly assembled in respect to one another, alining grooves are formed whereby the sections may be separated by sliding the same upon the supporting ribs without removing the same from the casing.

If desired a suitable covering 7 may be

provided to fit over the outer surface of the map and into engagement with the outer edges of the side flanges thereof, said cover being fastened in place by hooks 8 or other
5 suitable fastening devices. By providing the cover 7 the map will be kept clean and free from dust when not in use.

A map constructed in accordance with our invention will be found highly advanta-
10 geous in a class room as the teacher may readily form any desired map upon a single base board, provided the necessary sections be kept on hand. It will also be noted that the sides of the ribs and grooves are at right
15 angles to the base so that the several sections may be moved bodily to and from the base board in a plane perpendicular thereto and the sections may be readily placed in their proper positions as the uncovered portions
20 of the ribs will form guides to aid in bringing the unplaced sections into such a position that the grooves therein will engage said ribs.

From the foregoing description taken in
25 connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion
30 and the minor details of construction may be

resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described our invention, what 35 we claim is:

A device of the character described comprising a rectangular casing having a flat back, a plurality of rigid horizontally disposed supporting ribs projecting from the 40 latter and arranged in parallel relation to one another, and a sectional board adapted to be confined within the casing and having a design pictured thereon, said section having alining grooves formed in the back of 45 the same and irregular conforming edges whereby said sections are adapted for horizontal movement upon the supporting ribs without removal of the same from the casing. 50

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

GUY DETRICK.
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JOSEPH C. EICHER.
JOHN M. NAUGLE.

Witnesses:

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A. D. SHAFFER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
