W. H. HALL.

CARD FILE.

APPLICATION FILED JULY 11, 1917.

1,316,719.

Patented Sept. 23, 1919.

3 SHEETS—SHEET 1.

Fig. 1.

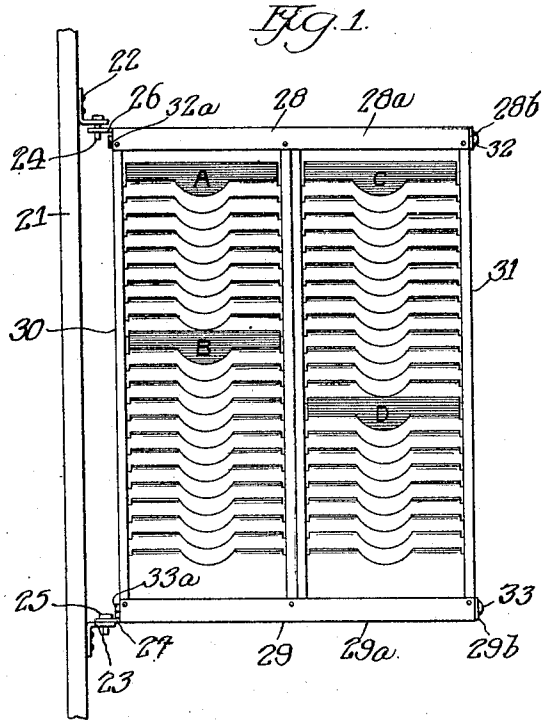


Fig. 2

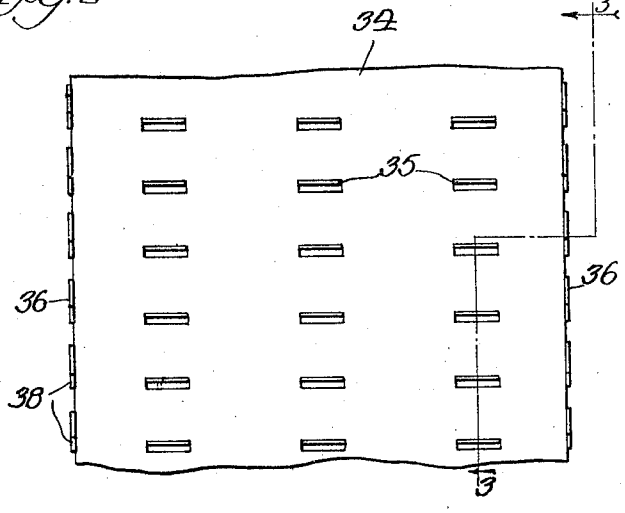
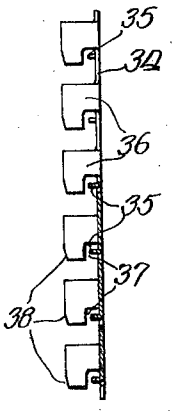


Fig. 3.



Witnesses:

Geo. C. Davison

R. Burkhardt

Inventor.

William H. Hall

By Cromwell, Greist & Worden

Attys.

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

W. H. HALL.

CARD FILE.

APPLICATION FILED JULY 11, 1917.

1,316,719.

Patented Sept. 23, 1919.

3 SHEETS—SHEET 2.

Fig. 4.

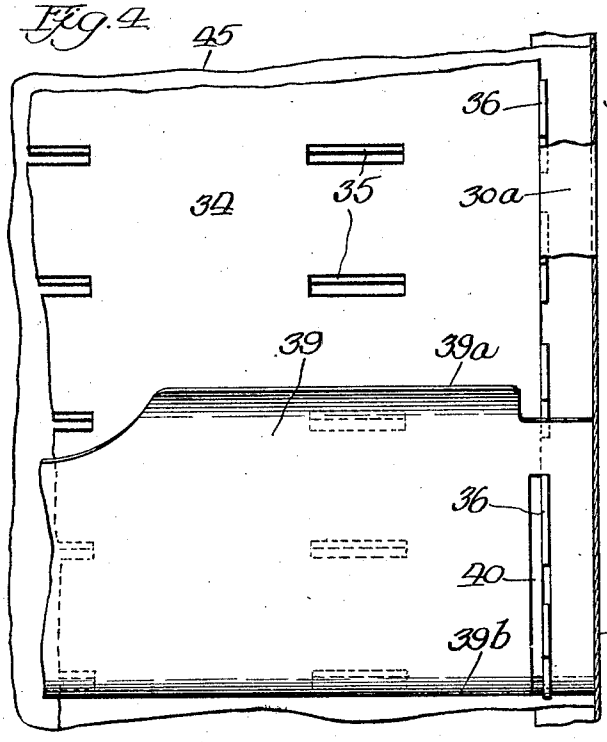


Fig. 5.

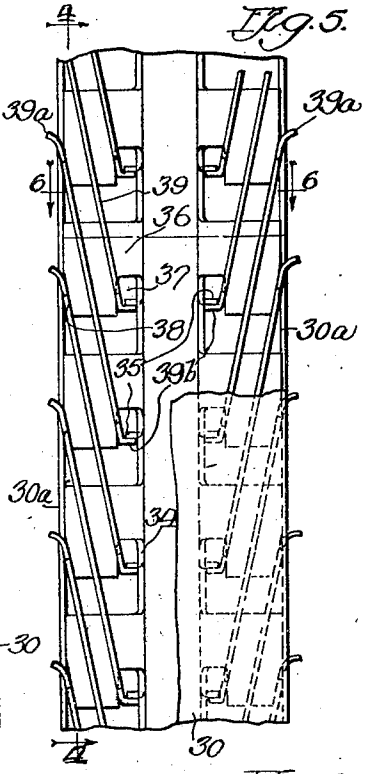


Fig. 7.

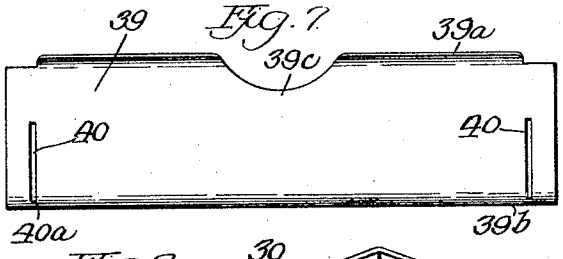


Fig. 8.

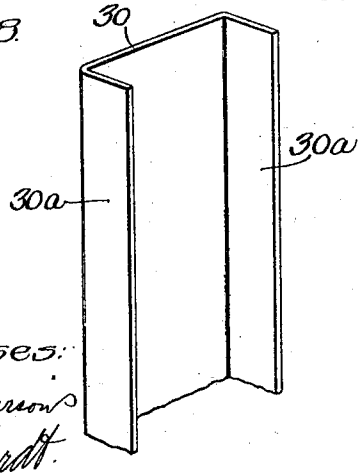
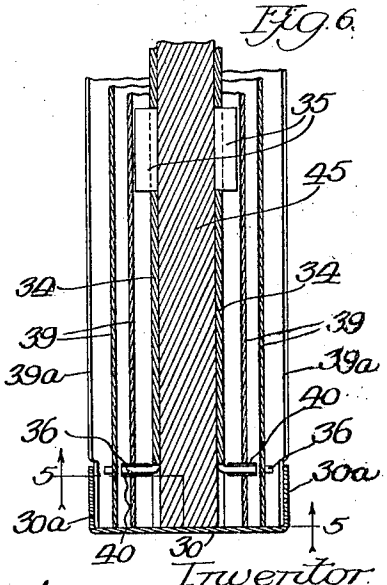


Fig. 6.



Witnesses:
F. E. Clarson
R. Burkhardt.

Inventor
William H. Hall.
By Cromwell, Greist & Warden
Attys

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

W. H. HALL.

CARD FILE.

APPLICATION FILED JULY 11, 1917.

1,316,719.

Patented Sept. 23, 1919.

3 SHEETS—SHEET 3.

Fig. 9.

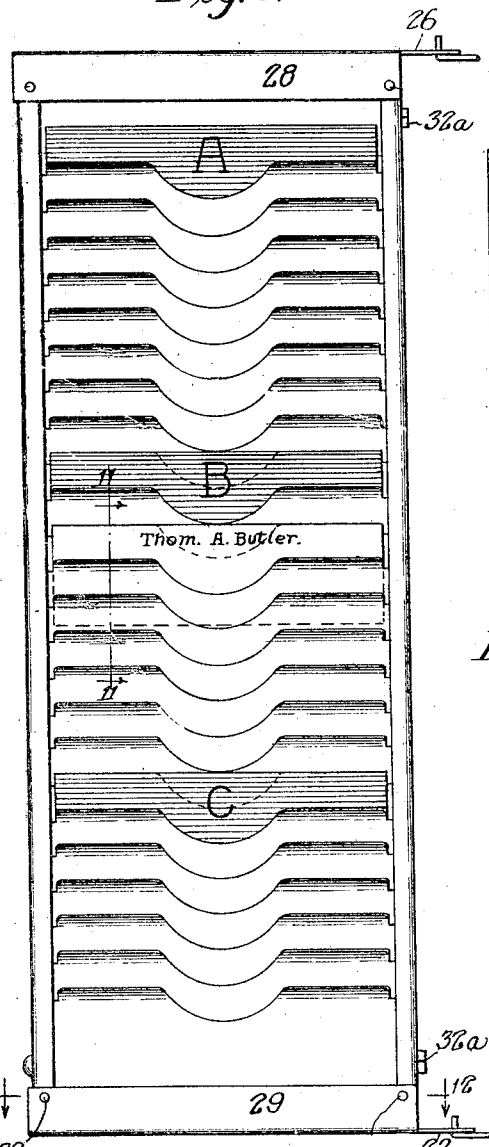


Fig. 10.

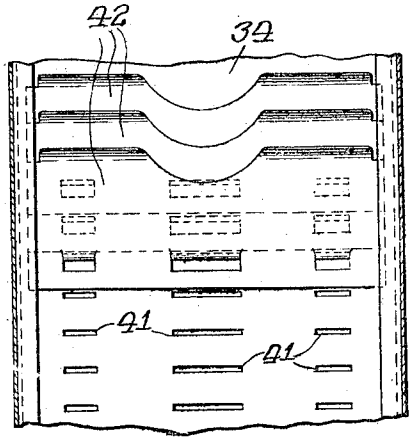


Fig. 11.

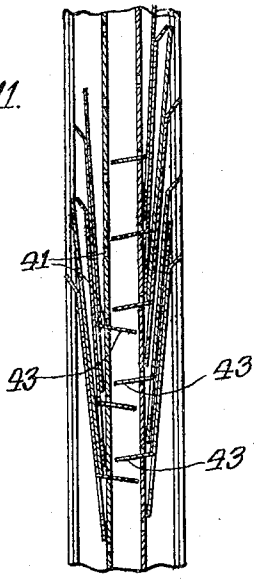
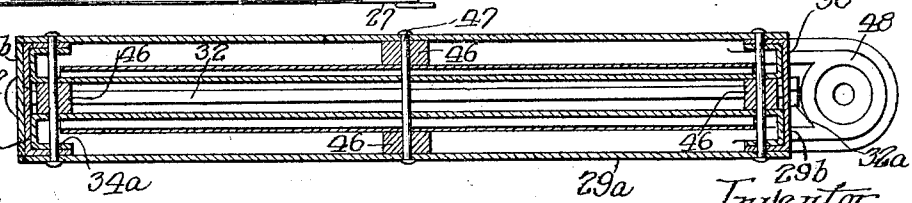


Fig. 12.



Witnesses:
F. C. Dawson
R. Burkhardt

Inventor.
William H. Hall.
By Cromwell, Crist & Warden
Attys.

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM H. HALL, OF CICERO, ILLINOIS, ASSIGNOR TO KOHLER DIE & SPECIALTY COMPANY, OF DE KALB, ILLINOIS, A CORPORATION OF ILLINOIS.

CARD-FILE.

1,316,719. Specification of Letters Patent. **Patented Sept. 23, 1919.**

Application filed July 11, 1917. Serial No. 179,860.

To all whom it may concern:

Be it known that I, WILLIAM H. HALL, a citizen of the United States, residing at Cicero, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Card-Files, of which the following is a specification.

The invention has to do with the provision of a device for systematically filing name cards and other data according to prearranged plans, and the elements of the device have been designed with a particular view to making it an economical and practical manufacturing proposition, the device being built up of a number of unitary elements adapted for assemblage in any desired quantity whereby to produce a device of small or large capacity at will.

The invention provides pockets of any desired depths and widths for holding cards, said pockets being formed between overlapping sheets of metal mounted in a simple and novel manner in vertical column or series, the vertical series being of greater or less height, duplicated, or further multiplied horizontally, and advantageously also arranged in multiple back to back. The device presents an exceedingly compact arrangement of pockets, providing in readily accessible form accommodation for a maximum number of cards in a given space.

In order that the invention may be readily understood, a preferred and modified embodiment of the same are set forth in the accompanying drawings and in the following detailed description based thereon. Obviously the invention is susceptible of embodiment in other and varied constructional forms without departure from the essence of the invention or the sacrifice of its material advantages; wherefore it is to be understood that the drawings and description are to be taken in an illustrative and not in an unnecessarily limiting sense. In the drawings—

Figure 1 is a front elevation of one form of the device;

Fig. 2 is a fragmentary view of the supporting wall or plate forming one element of the device;

Fig. 3 is a sectional view on the line 3—3 of Fig. 2;

Fig. 4 is a vertical section on the line 4—4 of Fig. 5;

Fig. 5 is a section on the line 5—5 of Fig. 6;

Fig. 6 is a cross section on the line 6—6 of Fig. 5;

Fig 7 is a view showing in front elevation one of the division plates;

Fig. 8 is a perspective view of a portion of the channel form retaining member;

Fig. 9 is a front elevation of a slightly modified embodiment of the invention;

Fig. 10 is a fragmentary vertical section through Fig. 9 illustrating the manner of assembling the division plate;

Fig. 11 is a transverse vertical section on an enlarged scale showing the assembled relation of certain of the division plates and inserted cards; and

Fig. 12 is an enlarged cross section on the line 12—12 of Fig. 9.

In Fig. 1 a standard 21 is represented as having attached thereto brackets 22 and 23 for the pivotal support of the card file by means of pins 24 and 25 which transfix an aperture in each of the brackets 22–23 and similar apertures formed in the projecting wings 26, 27 of the cap plate 28 and the base plate 29, these plates each being stamped from a single sheet of metal having wings 28^a and 29^a downturned to form a marginal housing for the device. The cap and base plates likewise are provided with wings 28^b and 29^b downturned at the ends to embrace the retaining members 30 and 31, rods 32 and 33 provided with nuts 32^a and 33^a serving to tie the same together.

Having its upper and lower ends housed respectively by the cap and base plates 28 and 29 and its vertical edges housed by the retaining members 30 and 31 is a supporting wall or plate 34 provided with a vertical series of horizontally alined lugs 35 formed by stamping out the metal as clearly shown in Fig. 2. The support 34 is likewise provided with a vertical series of marginal tongues 36 forwardly bent to a position substantially perpendicular to the plane of the

support. These outstanding tongues 36 are undercut as indicated at 37 to provide a slot immediately adjacent the support and the forward edge of the tongues are inclined or beveled as indicated at 38, the degree of inclination corresponding to that desired to be occupied by the division plate as will hereinafter more clearly appear.

A series of division plates 39 are provided as most clearly shown in Fig. 7 each having its upper edge outturned as indicated at 39^a and its lower edge inturned as indicated at 39^b, while the upper edge of the division plate is also preferably cut away as indicated at 39^c to facilitate the grasping of a card by the thumb and finger.

It will be observed that the outstanding tongues 36 of the support 34 are slightly spaced apart, the interspaces substantially corresponding horizontally with the lugs 35. The distance from the bottom of one of the tongues 36 to the top of the next adjacent tongue thereabove is slightly greater than the vertical slot 40 provided near each end of the division plate 39, the length of the slot 40 being made to correspond substantially with the distance from the end of the notch 37 to the top of the tongue next above. It is apparent, therefore, as indicated in Fig. 5, that one of the division plates 39 may be placed with its slots 40 taking over two of the outstanding tongues 36, with the lower wall 40^a of the slot 40 engaged within the notch 37, in which position the upper body portion of the division plate 39 will rest against the inclined face 38 of the second tongue 36 above. When so placed, it is obvious that the lower edge of the division plate 39 cannot move away from the supporting rear wall 34 without first moving the upper portion of the division plate 39 forwardly and clear of the tongue 36 immediately above that tongue within the slot of which the division plate is engaged. Beginning at the top of the support a plurality of these plates are assembled in the same manner corresponding in number to the number of the outstanding tongues 36. It will be observed that the lower edge of each division plate 39 bears against the support 34 immediately below one of the pairs of forwardly projecting lugs 35, the coöperation of the lugs 35 and the inwardly turned edge 39^b of the division plate coöperating to effectually prevent an inserted card from passing downwardly behind the division plate.

The series of division plates having been arranged in the relation described upon the support 34, the channel-form retaining members 30—31 are brought into position so as to house the marginal tongues 36 and the ends of the overlapping division plates 39. The flanges 30^a of the retaining members form a forward abutment for the upper edges of the division plates and at the rear bear against the back of the support 34. When thus assembled together with the rods 32, 33 and the cap and base plates 28 and 29, there is formed a compact rigid device illustrated in Fig. 1 which may be mounted in any convenient location and which serves to preserve the inserted cards for ready and convenient reference.

In Figs. 9 to 12 inclusive is shown a slightly modified form of construction in so far as the mounting of the division plates upon the support is concerned. In that form of the construction previously described, the division plates, when once assembled, are held rigidly in fixed position by the flanges 30^a of the retaining members; whereas in that form of the construction shown in Figs. 9 to 12 inclusive the division plates are, in effect, hingedly connected to the support near their bottom edges in such manner as to provide for movement toward and from the support, thus conferring a certain degree of elasticity as to capacity.

In this form of construction, as clearly shown in Fig. 10, the support 34′ is provided with two or more vertical series of horizontally alined slots 41 and the division plates 42 are provided along their lower edge with rearwardly extending tongues 43 adapted to enter said slots. In this form of construction the position of the division plates is not fixed, but they may move toward and from the support limited only by the retaining flanges of the retaining members 30 or by the inturned flanges 34^a of the supporting plate or wall. The lower edge of the division plates is also free to move toward and from the support 34 as the tongues 43 may slide inwardly and outwardly of the slot 41. It is thus made possible to place within one of the pockets two or more cards by moving the division plate outwardly and encroaching slightly upon the capacity of the next adjacent pocket.

In Figs. 5 and 11 are exemplified the manner in which two vertical series of pockets may be arranged back to back within a common retaining member for each vertical margin. As shown in Figs. 5 and 6 the two supporting walls 34 may be spaced apart by a filler board 45, or as shown in Figs. 11 and 12 the spacing of the walls 34′ and the wings 29^a may be accomplished by filler strips or blocks 46 held in place by cross pins 47. Where a series of vertical pockets are thus arranged in multiple, with the attendant increase in weight, or where the series are of exceptional vertical height, it is advisable to strengthen the wing portions 26 and 27 of the cap and base plates 28—29 by reinforcing corrugations 48 as most clearly shown in Fig. 12.

I claim:

1. In a card file, a support having a ver-

tical series of horizontally alined outstanding marginal tongues, the tongues provided with a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over the tongues with a wall engaged within the slot of said tongues and with the plate resting against an adjacent tongue, whereby to space the plates apart.

2. In a card file, a support having a vertical series of horizontally alined outstanding marginal tongues, the tongues undercut to provide a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over the tongues with the lower wall engaged within the slot thereof and with the plate resting against an upper tongue whereby to space the plates apart, and a channel form retaining member housing the ends of the division plate to maintain the same in properly spaced relation.

3. In a card file, a support having a vertical series of horizontally alined outstanding marginal tongues, the tongues provided with a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over two of the tongues with a wall engaged within the slot of one of said tongues and with the plate resting against the next adjacent tongue, whereby to space the plates apart.

4. In a card file, a support having a vertical series of horizontally alined outstanding marginal tongues, the tongues provided with a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over two of the tongues with a wall engaged within the slot of one of said tongues and with the plate resting against the next adjacent tongue, whereby to space the plates apart, and a retaining member housing the two ends of the division plate to maintain the same in properly spaced relation.

5. In a card file, a support having a vertical series of horizontally alined outstanding marginal tongues, the tongues undercut to provide a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over two of the tongues with the lower wall engaged within the slot of the lower one thereof and with the plate resting against the next upper tongue, whereby to space the plates apart.

6. In a card file, a support having a vertical series of horizontally alined outstanding marginal tongues, the tongues undercut to provide a slot adjacent the plane of the support, and a series of overlapping division plates each having a vertical slot at each end arranged to take over two of the tongues with the lower wall engaged within the slot of the lower one thereof and with the plate resting against the next upper tongue, whereby to space the plates apart, and a channel form retaining member housing the ends of the division plate to maintain the same in properly spaced relation.

7. In a card file, a support having a vertical series of horizontally alined forwardly projecting lugs and outstanding marginal tongues, the tongues undercut to provide a slot adjacent the plane of the support, and a series of overlapping division plates having a vertical slot at each end arranged to take over two of the slots with the lower wall engaged within the slot of the lower one thereof and with the plate resting against the next upper tongue, the lower edge of the plate bearing against two of the forwardly projecting lugs, and a channel form retaining member housing the ends of the division plate along each margin thereof whereby to space the plates apart and to maintain the same in properly spaced relation.

8. In a card file, a support having a vertical series of horizontally alined forwardly projecting lugs and a vertical series of horizontally alined outstanding marginal tongues, the tongues being vertically spaced apart and the interspaces corresponding horizontally with the forwardly projecting lugs, the tongues undercut to provide a slot adjacent the plane of the support, a series of overlapping division plates each having a rearwardly turned lower edge to bear against the lug and a vertical slot at each end arranged to take over two of the tongues with the lower wall engaged within the slot of the lower one thereof and with the plate resting against the next upper tongue, and channel form retaining members housing the two ends of the division plates whereby to maintain the plates in proper spaced relation.

9. In a card file, a support having a vertical series of horizontally alined forwardly projecting lugs and a vertical series of horizontally alined outstanding marginal tongues, the tongues being vertically spaced apart and the interspaces corresponding horizontally with the forwardly projecting lugs, the tongues undercut to provide a slot adjacent the plane of the support, a series of overlapping division plates each having a rearwardly turned lower edge to bear against the lug and a vertical slot at each end arranged to take over two of the tongues with the lower wall engaged within the slot of the lower one thereof and with the plate resting against the next upper tongue, and channel form retaining members housing the two ends of the division plates whereby to maintain the plates in proper spaced relation, a cap plate and a base plate having

downwardly turned flanges embracing the support and retaining members, said cap and base plate having projecting wing portions to form supports for mounting the file.

10. In a card file, a support having horizontally alined pairs of outstanding marginal tongues arranged in vertical series, a plurality of overlapping division plates having adjacent each end a vertical slot, the slots of the plates taking over a horizontally alined pair of tongues and the plates bearing rearwardly against the edge of the pair of tongues next above, and means to house the ends of the several plates.

11. In a card file, a support having horizontally alined pairs of outstanding marginal tongues arranged in vertical series, a plurality of overlapping division plates having adjacent each end a vertical slot, the slots of the plates taking over a horizontally alined pair of tongues and the plates bearing rearwardly against the edge of the pair of tongues next above, and channel-form retaining members housing the ends of the several plates.

12. In a card file, a support having horizontally alined pairs of outstanding marginal tongues arranged in vertical series, a plurality of overlapping division plates having adjacent each end a vertical slot, the slots of the plates taking over a horizontally alined pair of tongues and the plates bearing rearwardly against the edge of the pair of tongues next above, means to close off the space between the support and the lower face of the plate, and means to house the ends of the several plates.

13. In a card file, a support having horizontally alined pairs of outstanding marginal tongues arranged in vertical series, a plurality of overlapping division plates having adjacent each end a vertical slot, the slots of the plates taking over a horizontally alined pair of tongues and the plates bearing rearwardly against the edge of the pair of tongues next above, means to anchor together the lower edges of the plates and the support whereby to close off the space therebetween, and channel-form retaining members housing the ends of the several plates.

In witness whereof I have hereunto signed my name in the presence of a subscribing witness.

WILLIAM H. HALL.

Witness:
MARY C. BROWER.

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