

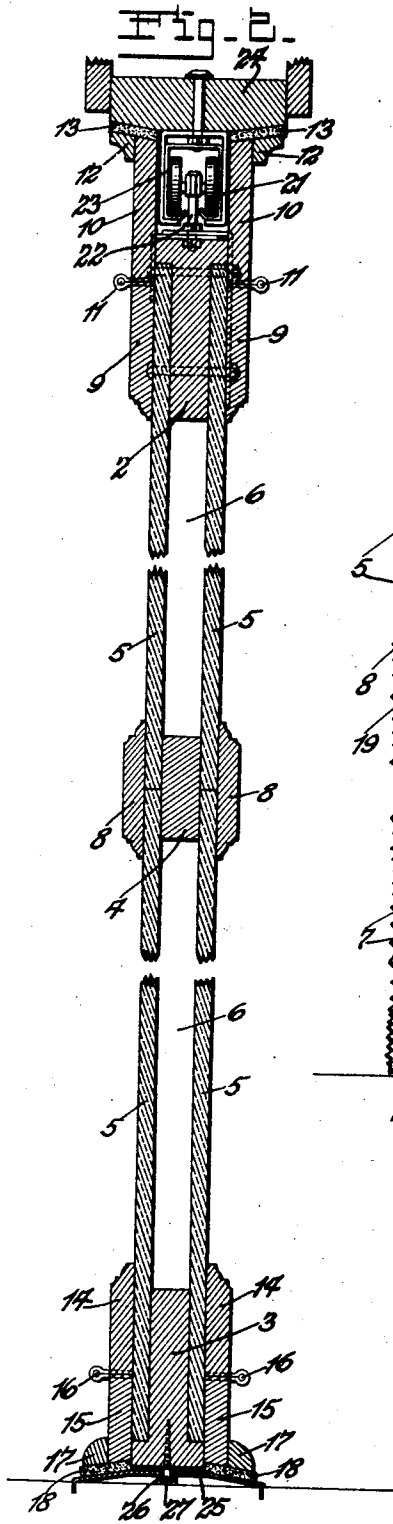
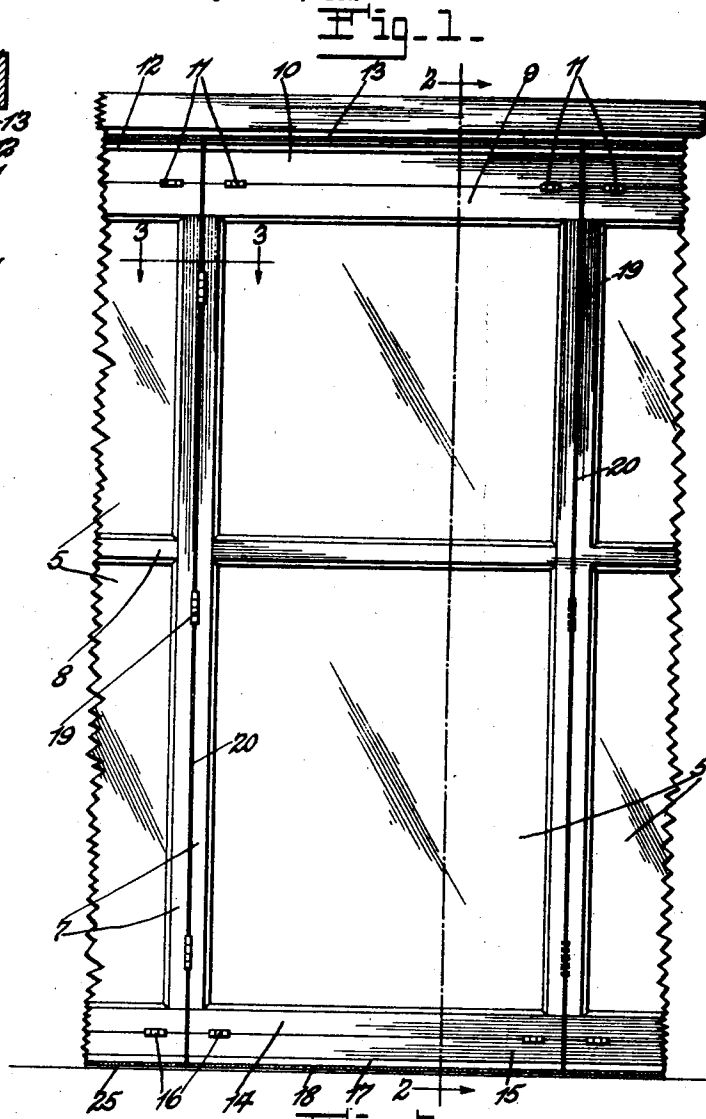
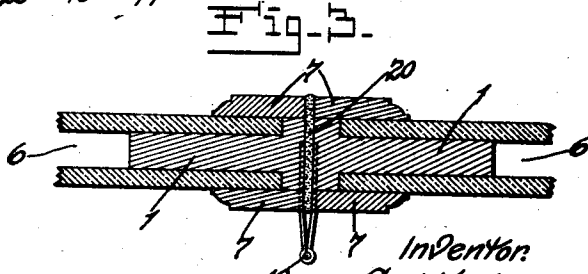
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SOUNDPROOF FOLDING PARTITION

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UNITED STATES PATENT OFFICE.

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SOUNDPROOF FOLDING PARTITION.

Application filed April 13, 1927. Serial No. 183,303.

This invention relates to soundproof folding partitions, designed and adapted for use as movable partitions to form walls to provide separated compartments, or to be moved
5 away to form a single compartment of two or more.

An object of the invention is to provide an improved partition designed and adapted for the uses and purposes stated, and comprising
10 foldable sections which may be extended to form complete partitions, or folded to permit easy removal of the partitions.

Another object of the invention is to provide an improved mounting for the partitions, the same comprising a track attached
15 to the head in the wall, and rollers in connection with the partition operating on said track and supporting the partition and permitting movement of the partition to and
20 from positions for use.

Other objects will appear from the following description, reference being made to the drawing, in which,

Fig. 1 is a side elevation showing one complete section and the connection thereof with
25 other sections of my improved partition.

Fig. 2 is an enlarged vertical sectional view on the line 2—2 of Fig. 1.

Fig. 3 is a horizontal sectional view on
30 the line 3—3 of Fig. 1.

Each section of my improved partition comprises a frame composed of vertical side members 1, a horizontal top member 2 connecting the upper ends of the side members,
35 and a horizontal lower end member 3 connecting the lower ends of the vertical side members 1. In instances where useful or desirable, a horizontal member 4 connecting the vertical side members 1 approximately
40 midway between the upper member 2 and the lower member 3 may be provided.

To each side of the frame thus constructed panels 5 are attached, the same forming the confined space 6. Border strips 7 may be
45 fastened along opposite sides of each vertical edge of each section to overlap the edges of the panels 5 and the laterally extended portions of the vertical frame members 1 (Fig. 3) to improve the appearance of each section
50 and to assist in holding the parts in proper relationship. Cross strips 8 may be provided to close the joint between the upper and lower panels 5 and to provide additional strength for the intermediate portion of each partition
55 section. Similar cross strips 9 may be attached to the upper end of each partition

section, the upper edges of said strips 9 being below the upper edge of the upper frame member 2. To each strip 9 a horizontal strip 10 is connected by hinges 11, the pivots
60 of which are outwardly beyond the surfaces of the strips 9 and 10, so that, when the strips 10 are raised to position in vertical continuation of the strips 9, they will remain in such position, as is clearly apparent from Fig. 2.
65 To the upper edge of each of the strips 9 an ornamental piece 12 is secured and to the upper edges of the strips 10 and the piece 12 a strip 13 of felt or other sound insulating material is secured.
70

Near the lower end of each partition section a transverse strip 14 is attached, the lower edges of the strip 14 being above the lower end of each partition section. To the
75 lower edge of each of the strips 14 a finishing strip 15 is connected by hinges 16, the pivots of which are outwardly beyond the surfaces of the strips 14 and 15, so that, when the strips 15 are raised to vertical positions,
80 against the outer sides of the strips 14, they will be supported in such positions. To the lower edge of each of the strips 15 an ornamental finishing strip 17 is attached and to the lower edges of the strips 15 and 17 a strip
85 18 of felt or similar sound insulating material is secured.

A number of sections thus constructed may be connected along their vertical edges by hinges 19 and the adjacent vertical edges of the partition sections may be provided or
90 covered with strips 20 of felt or similar sound insulating material, so that, when the sections are extended to form a partition, a sound deadening or insulating wall is produced.

This partition comprising any number of sections connected by hinges 19, as described, is designed and adapted to be supported for lateral movement to and from position for
100 use. As shown, each section has one or more trucks attached to its upper end. These trucks are of known construction, each comprising a pair of wheels 21 in connection with a frame 22, which frame 22 is attached to the upper partition frame member 2 at a proper
105 location. A track 23 slotted and flanged along its lower side, as is well known, is attached to the head 24 secured in the wall in which the partition is to be mounted for operation. The required number of sections
110 may be provided to form a complete wall across any room and these sections may be

moved to and from position along the track 23. The track 23 may be curved to permit the sections of which each partition is composed to move to different places for use. When it is desired to move the partitions to or from position for use, the parts 10 are folded downwardly against the outer sides of the strips 9 so as to permit easy movement of the partitions. When the partition is moved to position for use, the strips 10 are folded upwardly to place the sound deadening or insulating elements 13 against the head 24. Similarly, when the partition is to be moved from one place to another, the strips 15 are folded upwardly against the outer sides of the strips 14. And, when the partition is placed for use, the strips 15 are folded downwardly to place the sound deadening or insulating parts 18 against the inclined portions of a base element 25. This element 25 may be composed of metal or other material and is preferably provided with a channel or groove 26 in which projections 27 form the lower edge of the lower frame member 3 operate to guide the partition when it is moved from one place to another and to retain it in proper adjustment when in any position.

From the foregoing it will be seen that my improved partition is capable of application to all of the uses herein suggested and to other uses apparent from the foregoing description. It is specially adapted for use in churches and other buildings wherein it is often desired to change the dimensions of rooms, or to divide a large room into a number of small rooms, or to form a large room out of a number of small rooms by throwing all of the rooms together. It is obvious that the construction and arrangements of the parts may be varied within comparatively wide limits and that selected materials may be used without departure from the nature and principle of the invention. I contemplate all such variations as may be required to adapt the invention for its various intended purposes and, without restricting myself in any essential particulars, what I claim and desire to secure by Letters Patent is:—

1. A partition comprising a wall section, means for suspending the wall section for lateral edgewise movements, a movable strip at the upper end of said section, and hinges connecting said strip with said section and having their pivots outwardly beyond the outer surfaces of said strip and said section for supporting said section vertically in continuation of the surface of said wall section.

2. A partition comprising a wall section, means for suspending the wall section for lateral edgewise movements, a movable strip at the upper end of said section, hinges connecting said strip with said section and having their pivots outwardly beyond the outer surfaces of said strips and said section for supporting said section vertically in continu-

ation of the surface of said wall section, a strip for the lower end of said wall section, and hinges supporting said last named strip in connection with the lower end of said section having their pivots outwardly beyond the outer surfaces of said strip and said section.

3. A partition comprising a wall section, means for suspending the wall section for lateral edgewise movements, a movable strip at the upper end of said section, hinges connecting said strip with said section and having their pivots outwardly beyond the outer surfaces of said strip and said section for supporting said section vertically in continuation of the surface of said wall section, and means for guiding the lower end of said section when said section is moved edgewise laterally.

4. A partition comprising a wall section, means for suspending the wall section for lateral edgewise movements, a movable strip at the upper end of said section, hinges connecting said strip with said section and having their pivots outwardly beyond the outer surfaces of said strip and said section for supporting said section vertically in continuation of the surface of said wall section, a strip for the lower end of said wall section, hinges supporting said last named strip in connection with the lower end of said section having their pivots outwardly beyond the outer surfaces of said strip and said section, and means for guiding the lower end of said section when said section is moved edgewise laterally.

5. A folding partition comprising a number of wall sections having adjacent vertical edges, hinges connecting the adjacent vertical edges of the respective sections, means for suspending the several sections for lateral edgewise movements to and from positions for use, and a horizontal strip hinged to the upper portion of each section and arranged to swing upwardly from a suspended position to position in continuation of the side surface of each section.

6. A folding partition comprising a number of wall sections having adjacent vertical edges, hinges connecting the adjacent vertical edges of the respective sections, means for suspending the several sections for lateral edgewise movements to and from positions for use, and a horizontal strip hinged to the lower portion of each section and arranged to be swung upwardly from position in continuation of the side of the respective sections to position against the outer side of each section.

7. A folding partition comprising a number of wall sections having adjacent vertical edges, hinges connecting the adjacent vertical edges of the respective sections, means for suspending the several sections for lateral edgewise movements to and from posi-

tions for use, a horizontal strip hinged to the upper portion of each section and arranged to swing upwardly from a suspended position to position in continuation of the side surface of each section, and a horizontal strip hinged to the lower portion of each section and arranged to be swung upwardly from position in continuation of the side of the respective sections to position against the outer side of each section.

8. A partition section, means for suspending said partition section for lateral edge-wise movements to and from position for use as a partition, and a horizontal strip hinged to the upper portion of said section at each side thereof and movable from suspended position to upwardly extended position in continuation of the surfaces of said section.

9. A partition section, means for suspending said partition section for lateral edge-wise movements to and from position for use

as a partition, and a horizontal strip hinged to each side near the lower end of said section and movable from vertical position in continuation of the surfaces of said section to upright position against the surfaces of said section.

10. A partition section, means for suspending said partition section for lateral edge-wise movements to and from position for use as a partition, a horizontal strip hinged to the upper portion of said section at each side thereof and movable from suspended position to upwardly extended position in continuation of the surfaces of said section, and a horizontal strip hinged to each side near the lower end of said section and movable from vertical position in continuation of the surfaces of said section to upright position against the surfaces of said section.

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