Nov. 26, 1940. R. J. HOENIGSBERG 2,222,665

DEVICE FOR THE SUPPORT OF ARTICLES

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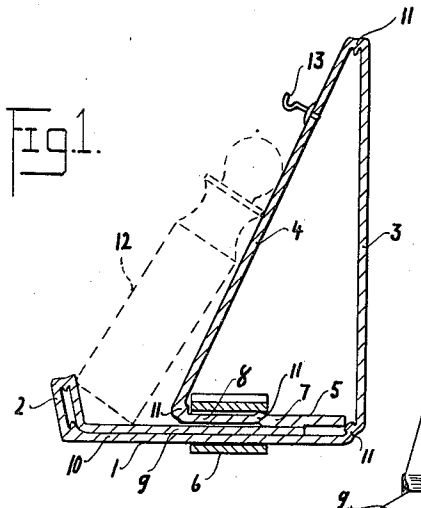


Fig. 1.

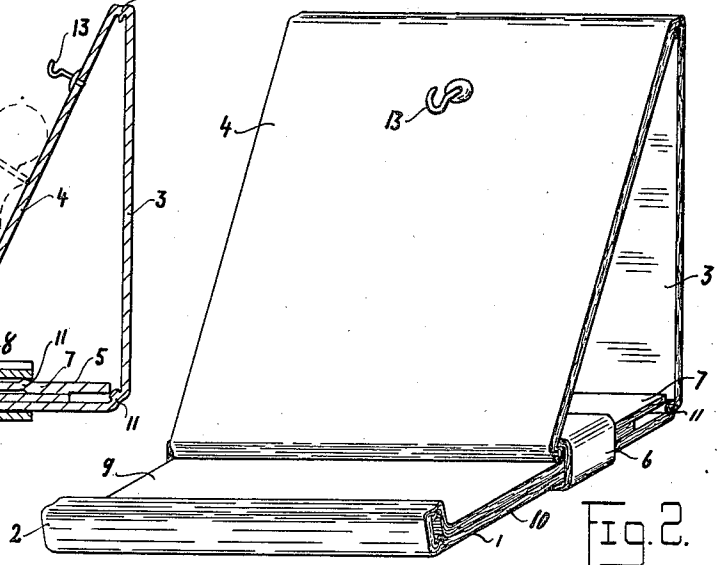


Fig. 2.

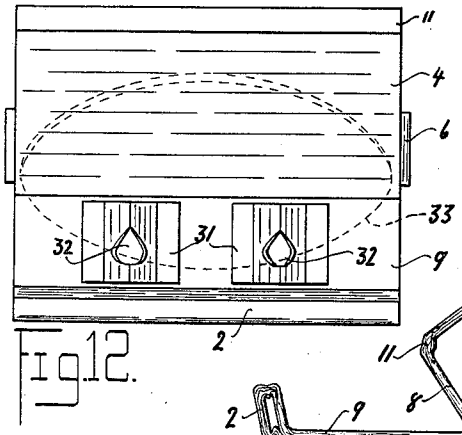


Fig. 12.

Fig. 3.

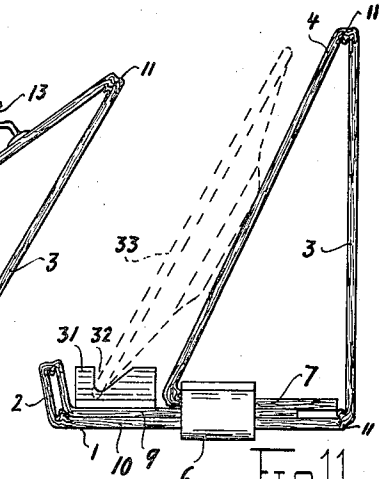


Fig. 11.

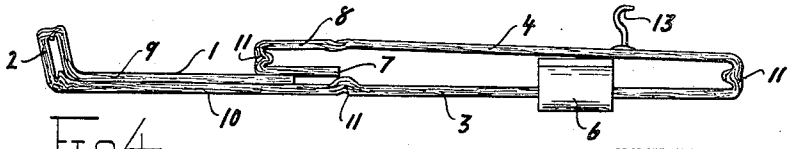


Fig. 4.

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Fig. 5.

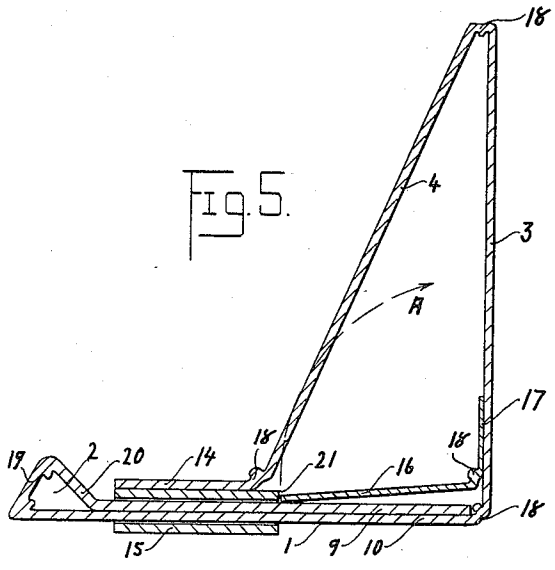
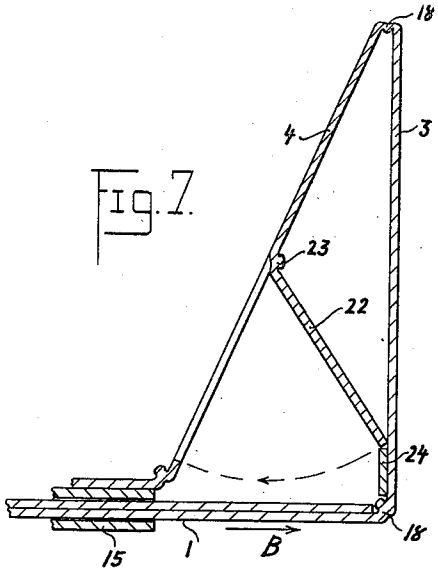


Fig. 7.



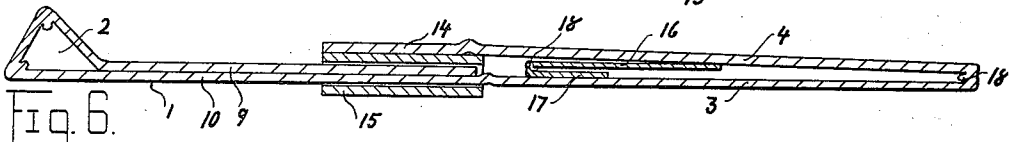
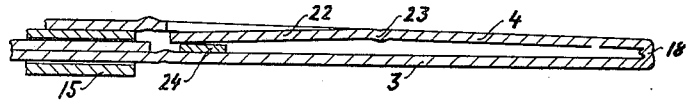


Fig. 6.

Fig. 8.



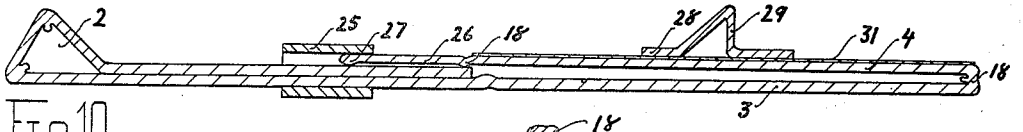


Fig. 10.

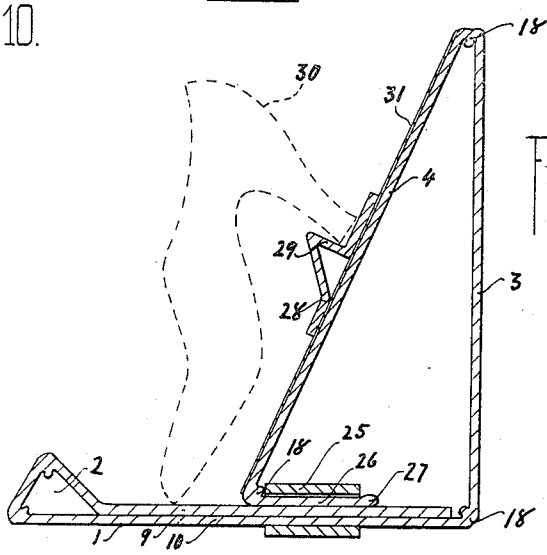


Fig. 9.

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UNITED STATES PATENT OFFICE

2,222,665

DEVICE FOR THE SUPPORT OF ARTICLES

Robert J. Hoenigsberg, Brooklyn, N. Y.

Application February 28, 1939, Serial No. 258,872

10 Claims. (Cl. 248—198)

My invention relates to means for supporting articles, particularly to a collapsible device for supporting articles of various kinds on counters, in show windows, in display cases, in homes, etc., furthermore, for supporting a watch on a night table, note paper, etc.

One object of my invention is to provide a device for supporting articles which consists of cardboard, metal or any other suitable material and which can be completely collapsed in order to facilitate transport and storage and which can be easily opened when it is to be used.

Another object of my invention is to provide a collapsible device for supporting articles which can be inexpensively and simply manufactured by bending off a strip of cardboard and flexibly connecting the various parts of the device by folds thus enabling a collapsing and a reopening of the device.

Another object of my invention is to provide a collapsible device which enables an attractive and convenient display of merchandise and which does not damage any merchandise displayed however fragile or delicate it might be since a smooth and also ornamental surface can be easily obtained.

Other and further objects and advantages of my invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the accompanying drawings several embodiments of my invention are shown.

Fig. 1 shows a cross-section of a collapsible device for supporting articles.

Fig. 2 is a perspective view of a device according to Fig. 1.

Fig. 3 shows a side view of a device according to Fig. 1 in a semi-collapsed position.

Fig.4 shows a side view of the same device in its completely collapsed position.

Fig. 5 shows a cross-section of a second embodiment of the same device according to my invention; the device is shown in its opened position.

Fig. 6 shows in cross-section a device according to Fig. 5 in its completely collapsed position.

Fig. 7 shows a cross-section of a third embodiment of a collapsible device according to my invention; the device is shown in its opened position.

Fig. 8 shows in cross-section the device according to Fig. 7 in its completely collapsed position.

Fig. 9 shows a cross-section of a fourth embodiment of a collapsible device according to my invention in its opened position.

Fig. 10 shows in cross-section the device according to Fig. 9 in its completely collapsed position.

Fig. 11 shows in side view a device similar to Figs. 1–4 but provided with an additional abutment to secure an article to be supported in its position, and

Fig. 12 shows a plan view of a device according to Fig. 11.

The preferred device for supporting articles according to my invention shown in Figs. 1 to 4 consists of a base part 1, provided with an abutment 2, a rear wall 3, a supporting or displaying wall 4, a tongue 5 and a slide 6. The connections between base part 1, rear wall 3, supporting or displaying wall 4 and tongue 5 are flexible. The tongue 5 consists of two sections 7 and 8 which are also flexible connected. Section 7 is attached to base part 1. In the embodiment shown the whole device except slide 6 is made of a single strip of cardboard. The first section of this strip of cardboard forms the upper part 9 of the base part 1. The strip is then bent twice thus forming abutment 2, then it is bent to form the lower part 10 of base part 1, then to form rear wall 3, then to form supporting wall 4 and finally it is bent to form sections 7 and 8 of tongue 5. In order to obtain flexible connections between the various sections and walls, folds 11 are provided. Instead of cardboard, any other suitable material may be used. If the material employed does not allow flexible connections by folds 11, any other suitable means may be provided, for instance hinges, if metal is used. The surface of the cardboard strip and slide 6, which preferably consists of the same material as the strip, can be adapted to the particular purposes for which the device is to be used, for instance the cardboard can be covered with any ornamental material such as colored paper, tissue, leather, gilt, silver, etc.

When the device is not to be used or is to be shipped it is kept in its collapsed position shown in Fig. 4. If it is to be opened, slide 6 is slid on rear wall 3 until it enters between tongue sections 7 and 8. Thereby tongue section 8 and with it supporting wall 4 are lifted and brought into the position shown in Fig. 3. Slide 6 now begins to slide over tongue section 8 whereby this section is secured against base part 1. A single operation of slide 6 is sufficient to bring the device from its collapsed position into its opened position and to secure it in this position. When the

device is to be collapsed again it is necessary only to return slide 6 into its original position. Then it will release tongue section 8 and gradually lower wall 3 until this wall and all other parts have again reached the position shown in Fig. 4.

Fig. 2 very clearly illustrates the position of the various mentioned parts in the opened position of the device.

Any article 12 which is to be supported can be laid against supporting or displaying wall 4 as indicated in Fig. 1. The article will be safely secured in its position by abutment 2.

Under certain circumstances it will be advisable to provide a hook 13 or similar means on wall 4 in order to secure an article to be displayed in its position.

In Fig. 5, supporting wall 4 is continued by a tongue 14 which is attached to a slide 15. This slide can slide on base part 1. A second tongue 16 is attached to rear wall 3 with an extension 17 by gluing or any other suitable means. Tongue 16 is flexibly connected with its extension 17. The connections between base part 1, rear wall 3, supporting wall 4 and tongue 14 are also flexible. The whole device preferably consists of a strip of cardboard which is bent off several times in order to form the various walls and sections as is clearly shown in Fig. 5. Silde 15 and tongue 16 preferably, too, consist of cardboard. The flexible connections between the various parts are obtained by folds 18. The abutment 2 is also formed by suitable bending off of the cardboard. The lower part 10 of the base part 1 is first bent off to a section 19 and then bent off again to an oblique wall 20 which forms an abutment for any article to be displayed on the device according to my invention and placed against supporting wall 4. Wall 20 is then continued into the upper part 9 of base part 1.

Instead of cardboard, metal can be used. The surface of the device can be adapted to the purposes in question as has been described in connection with Figs. 1 to 4.

Fig. 5 shows the device in its opened position. Tongue 16 is pressed downward so that its end abuts against edge 21 of slide 15 or against another suitable part, for instance tongue 14. When the device is to be collapsed tongue 16 is turned upward in the direction indicated by arrow A. Slide 15 can now be slid on base part 1 whereby walls 3 and 4 are gradually brought into a prone position. Finally, they reach the position shown in Fig. 6 in which tongue 16 rests between walls 3 and 4. If the collapsed device is to be opened again slide 15 is slid back into the position shown in Fig. 5. Tongue 16 is then pressed downward in order to secure slide 15 and walls 3 and 4 in their positions.

The device shown in Figs. 7 and 8 is similar to the device shown in Figs. 5 and 6 with the exception that instead of a tongue attached to wall 3, a tongue 22 is provided which is punched out of supporting wall 4. The connection between wall 4 and tongue 22 is made flexible by means of a fold 23. In the opened position of the device tongue 22 abuts against rear wall 3 thus securing the various walls of the device and slide 15 in their positions. In some cases it is convenient to provide a particular abutment 24 for tongue 22.

If the device is to be collapsed tongue 22 is lifted out of its position and slide 15 is slid on base part 1 in the direction indicated by arrow B whereby walls 3 and 4 are gradually lowered into a prone position. Finally the various parts reach the completely collapsed position shown in Fig. 8.

The device can consist of cardboard provided with flexible folds, metal or any other suitable material. For the surface of the device any suitable and ornamental material can be used as described in connection with the previous figures.

Figs. 9 and 10 show a collapsible device in which a slide 25 is slid over base part 1 and is attached to the lower side of part 10 of base part 1. The upper section of slide 25 leaves a sufficient space for a tongue 26 which is flexibly connected with supporting wall 4. Tongue 26 ends in a bead 27 by which tongue 26 is secured in its position if slipped between slide 25 and base part 1.

In case shoes or similar articles are to be displayed a ledge 29 can be provided which can be attached by extensions 28 to supporting wall 4. Fig. 9 shows how a shoe 30 is secured in its position by ledge 29. In order to make the display of shoe 30 still more attractive supporting wall 4 can be covered with a mirror-like covering, 31, for instance reflecting paper.

The use of ledge 29 and covering 31 is not limited to the device according to Figs. 9 and 10 but can be used in connection with all previously described embodiments of my invention or in connection with other embodiments according to my invention.

In the opened position of the device shown in Fig. 9 tongue 26 is slipped between slide 25 and part 9. Hereby the positions of supporting wall 4 and wall 3 are fixed since wall 4 abuts against slide 25 in this position of slide 25 as clearly shown in Fig. 9. When the device is to be collapsed tongue 26 is simply slipped out of the slide and walls 3 and 4 are brought into a prone position as shown in Fig. 10. In this position all parts, including tongue 26, are extended. In order to secure the various parts in this collapsed position tongue 26 can be slipped again under slide 25 as illustrated in Fig. 10.

The device can consist of cardboard which is so bent that the various described parts and walls are formed or it can consist of metal. In case metal is used, the various parts must be connected by suitable hinges. The surface of the whole device can easily be adapted to the particular purposes for which the device is to be used as described in connection with the previous figures.

The device shown in Figs. 11 and 12 is similar to the device shown in Figs. 1 to 4. However, two additional abutments 31 are provided. Each of them has a triangular recess 32. Abutments 31 are secured by gluing or other suitable means to upper part 9 of the base part. These additional abutments serve to hold an article such as a china dish 33 in its position if resting against supporting wall 4. As Fig. 11 shows, the rim of a dish 33 rests in recesses 32 thus securing the dish in its position.

My invention is not limited to the embodiments shown and described but various changes can be made without departing from the scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A collapsible device for supporting articles comprising a base part, a rear wall flexibly connected with said base part, a supporting wall flexibly connected with said rear wall, said walls and said base part adapted to assume either a position substantially parallel to each other or a

substantially triangular to each other, a tongue consisting of an inner section and an outer section, a flexible connection between said inner section and said supporting wall, a flexible connection between said inner section and said outer section, said outer section being attached to said base part, a slide adapted to be slid over said inner tongue section and to secure in this position said inner tongue section against said base part whereby said walls and said base part are held in their position substantially triangular to each other, while in another position of said slide said walls and said base part can be brought into their parallel to each other position.

2. A collapsible device for supporting articles comprising a base part, an abutment provided on one end of said base part, a rear wall flexibly connected with the other end of said base part, a supporting wall flexibly connected with said rear wall, a tongue consisting of an inner section and an outer section, said inner section flexibly connected with said supporting wall, said outer section attached to an intermediate point of said base part, a slide slideable on said base part and said rear wall and adapted in a certain position to secure said inner section against said base part whereby said rear wall is held in a substantially right angle to said base part and said supporting wall in an oblique position leading from the top of said rear wall to said intermediate point of said base part.

3. A collapsible device for supporting articles comprising a strip of cardboard bent off at one end to form a rear wall, bent off again to form a supporting wall, bent off again to form an inner section of a tongue, bent off again to form an outer section of said tongue, said outer section being attached to an intermediate point of said base part, folds provided between said various walls and sections of said strip to form flexible connections, a slide slideable on said base part and said rear wall, said slide adapted to be slid over said inner tongue section thus securing said tongue section against said base part whereby said rear wall is held in substantially a right angle to said base part and said supporting wall in an oblique position leading from the top of said rear wall to said intermediate point of said base part.

4. A collapsible device for supporting articles comprising a strip of cardboard bent off at one end to form an abutment, bent off at its other end to form a rear wall, bent off again to form a supporting wall, bent off again to form an inner section of a tongue, bent off again to form an outer section of said tongue, said outer section being attached to an intermediate point of said base part, folds provided between said various walls and sections of said strip to form flexible connections, a slide slideable on said base part and said rear wall, said slide adapted to be slid over said inner tongue section whereby said rear wall is held in substantially a right angle to said base part and said supporting wall in an oblique position leading from the top of said rear wall to said intermediate point of said base part.

5. A collapsible device for supporting articles comprising a base part, a rear wall flexibly connected with one end of said base part, a supporting wall flexibly connected with said rear wall, an abutment connected with the other end of said base part and adapted to secure an article in its position on said supporting wall, said walls and said base part adapted to assume a position substantially parallel to each other or a position substantially triangular to each other, a slide slideable on said base part, a tongue flexibly connected with said supporting wall and attached to said slide, said slide being adapted to secure in one position said walls and said base part in their position substantially triangular to each other, and in another position, in their position substantially parallel to each other and to bring said walls gradually from one position into the other when slid on said base part.

6. A collapsible device for supporting articles comprising a base part, a rear wall flexibly connected with one end of said base part, a supporting wall flexibly connected with said rear wall, said walls and said base part adapted to assume a position substantially parallel to each other or a position substantially triangular to each other, a slide slideable on said base part, a tongue flexibly connected with said supporting wall and attached to said slide, said slide being adapted to secure in one position said walls and said base part in their position substantially triangular to each other, and in another position, in their position substantially parallel to each other, and to bring said walls gradually from one position into their other position when slid on said base part and a second tongue attached to said rear wall and adapted to abut against said slide if said slide is in a position for securing said walls and said base part in their position substantially triangular to each other.

7. A collapsible device for supporting articles comprising a base part, a rear wall flexibly connected with one end of said base part, a supporting wall flexibly connected with said rear wall, said walls and said base part adapted to assume a position substantially parallel to each other or a position substantially triangular to each other, a slide slideable on said base part, a tongue flexibly connected with said supporting wall and attached to said slide, said slide being adapted to secure in one position said walls and said base part in their position substantially triangular to each other and in another position, in their position substantially parallel to each other, and to bring said walls gradually from one position into their position when slid on said base part, a second tongue punched out of said supporting wall and adapted to abut against said rear wall if said slide is in a position for securing said walls and said base part in their position substantially triangular to each other.

8. A collapsible device for supporting articles comprising a base part, a rear wall flexibly connected with said base part, a supporting wall flexibly connected with said rear wall, a ledge attached to said supporting wall, said ledge being adapted to support an article to be displayed on said supporting wall, said walls and said base part adapted to assume either a position substantially parallel to each other or a position substantially triangular to each other, a tongue flexibly connected with said supporting wall, a slide on said base part adapted to secure said tongue in a certain position relative to said base part whereby said walls and said base part are held in their triangular to each other position.

9. A collapsible device for supporting articles comprising a supporting wall, a rear wall flexibly connected with said supporting wall, a base part flexibly connected with said rear wall, at least two abutments on said base part adapted to secure between them an article to be supported on said supporting wall, said walls and said base

part adapted to assume either a position substantially parallel to each other or a position substantially triangular to each other, a tongue flexibly connected with said supporting, a slide on said base part adapted to secure said tongue in a certain position relative to said base part whereby said walls and said base part are held in their position triangular to each other.

10. A collapsible device for supporting articles comprising a supporting wall, a rear wall flexibly connected with said supporting wall, a base part flexibly connected with said rear wall, at least two abutments on said base part each being provided with a recess adapted to receive an article to be supported on said supporting wall thus securing said article in its position, said walls and said base part adapted to assume either a position substantially parallel to each other or a position substantially triangular to each other, a tongue flexibly connected wtih said supporting wall, a slide on said base part adapted to secure said tongue in a certain position relative to said base part whereby said walls and said base part are held in their position triangular to each other.

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