Aug. 19, 1952 J. S. VANCE ET AL 2,607,412

DRAPERY HANGING ASSEMBLY

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FIG. 1

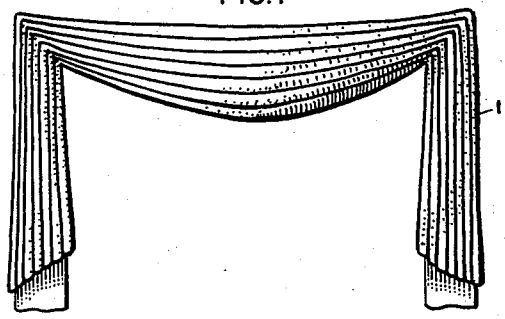


FIG. 2

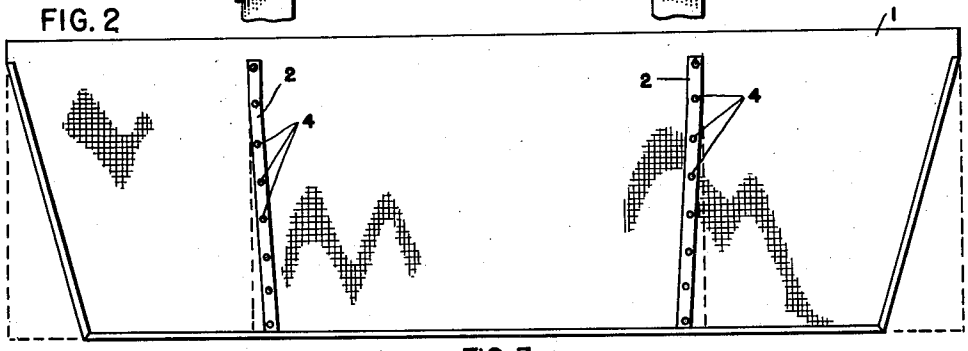


FIG. 3

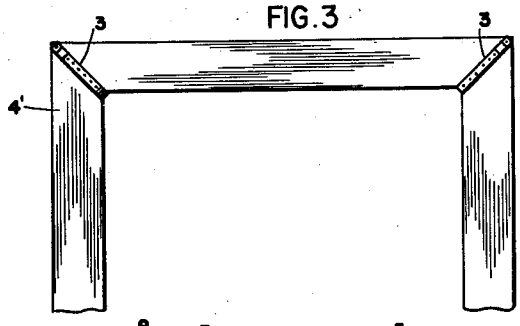


FIG. 4

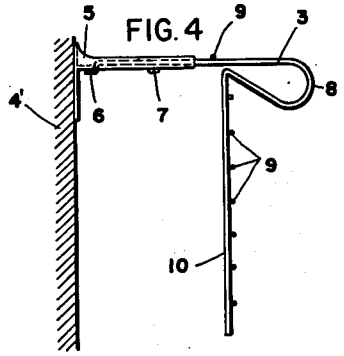
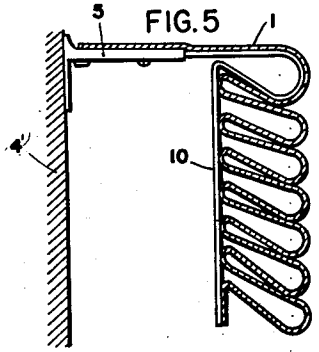


FIG. 5



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FIG. 6

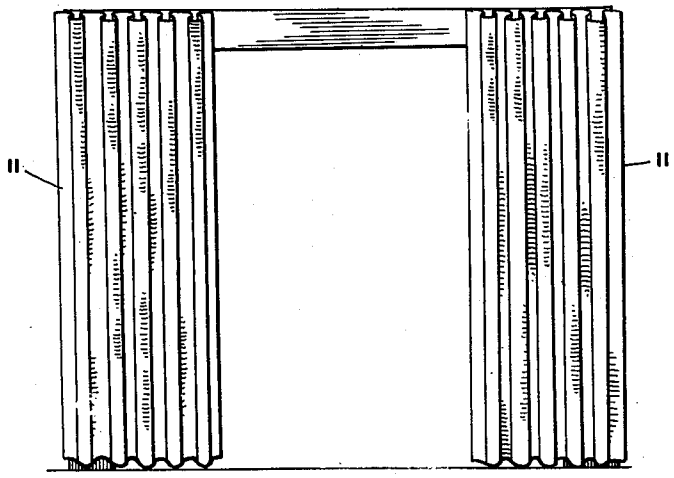


FIG. 7

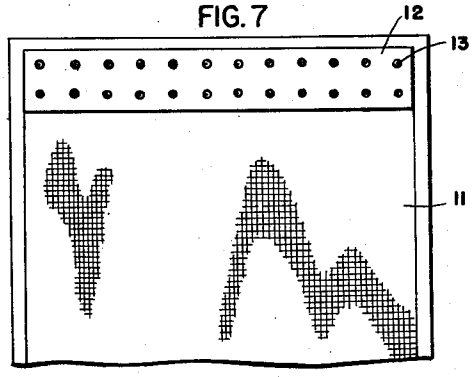


FIG. 8

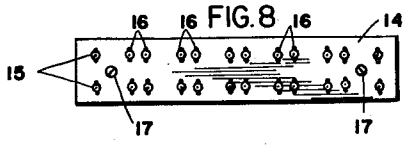


FIG. 9



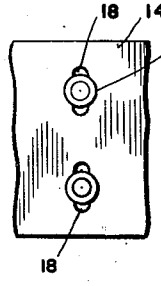


FIG. 10

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DRAPERY HANGING ASSEMBLY

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FIG. 11

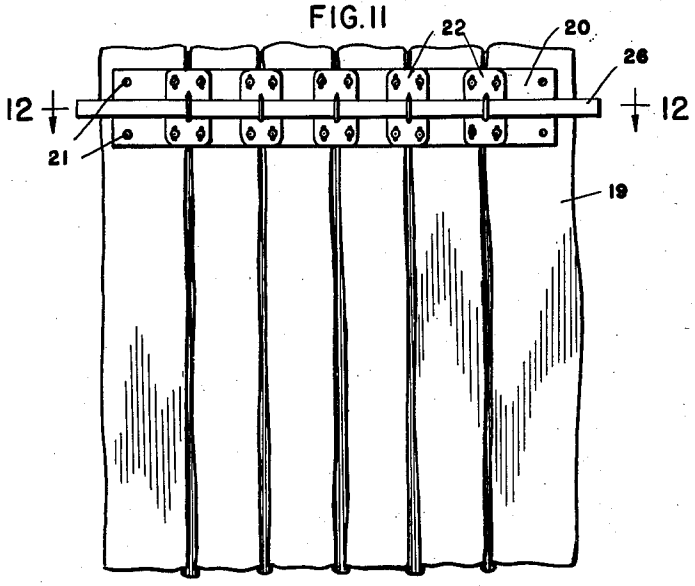


FIG. 12

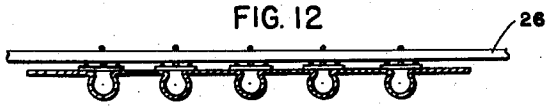


FIG. 13

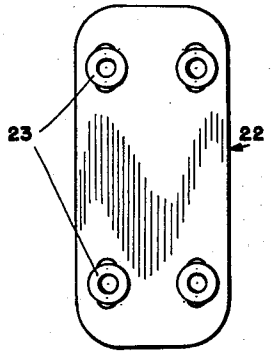


FIG. 14

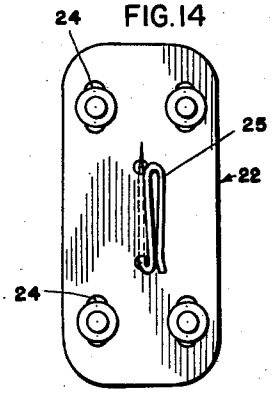
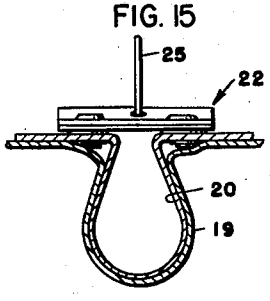


FIG. 15



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UNITED STATES PATENT OFFICE

2,607,412

DRAPERY HANGING ASSEMBLY

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Chicago, Ill.

Application May 11, 1949, Serial No. 92,532

2 Claims. (Cl. 160—348)

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This invention is directed to new and useful improvements in drapery hanging assembly whereby draperies can be hung in association with windows, doorways or walls in even pleats or folds with ease, may be readily taken down for cleaning and can be replaced with little effort.

The primary object of this invention is to provide an assembly of this nature which is simple and inexpensive and can be utilized by a person without special skill.

A further object of this invention is to provide a combination of elements which when assembled together will produce regular and attractive drapery folds or pleats.

Still a further object of this invention is to provide an assembly comprising a combination of drapery supporting means whereby the drapery is held in pleasant graceful folds or pleats without requiring tedious and skillful manual adjustments.

Other objects and advantages will be apparent from the following detailed specification.

In the drawings:

Fig. 1 is a front elevational view showing an installed drapery having horizontal and vertical folds resulting from the utilization of one form of this invention.

Fig. 2 is a bottom plan view of the drapery shown in Fig. 1 showing its shape and securing elements fastened thereto.

Fig. 3 is a front elevational view of the space to be decorated by the drapery of Fig. 1 showing the securing brackets in position.

Fig. 4 is a side elevational view of one of the supporting brackets shown in Fig. 3.

Fig. 5 is a side elevational view of the bracket of Fig. 4 with the drapery secured thereto.

Fig. 6 is a front elevational view of a pair of installed draperies having only vertical pleats resulting from the utilization of a modification of this invention.

Fig. 7 is an enlarged rear elevational view of the top portion of one of the pair of draperies shown in Fig. 6 showing its securing means.

Fig. 8 is an enlarged front elevational view of one of the brackets to which the drapery of Fig. 7 is secured.

Fig. 9 is a cross-sectional view of the drapery of Fig. 7 secured to the bracket of Fig. 9,

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Fig. 10 is an enlarged view of one of the pair of securing means on the bracket.

Fig. 11 is a rear elevational view of a mounted vertically folded or pleated drape using another embodiment of this invention.

Fig. 12 is a cross sectional view on line 12—12 of Fig. 11.

Fig. 13 is a front elevational view of one of the securing elements of Fig. 11.

Fig. 14 is a rear elevational view of the element of Fig. 11.

Fig. 15 is an enlarged sectional view of one of the attaching supporting elements assembled on the drapery of Fig. 11.

In detail, referring to the embodiment illustrated in Figs. 1 to 5, the drapery 1 is cut the length necessary to extend across the top and down the sides of the space to be decorated and a width corresponding to about the length of the fabric tapes 2 and the ends may be angled as shown. The tapes 2 are then sewn to the reverse side of drapery 1 an equal distance from each end and spaced apart at its top a distance equal to the distance between the tops of the brackets 3. The tapes 2 angle toward each other as shown, so that they are closer together at the bottom of the drapery. This is preferable in order to control, or minimize, the amount of dip of the drapery between the two brackets, at its bottom edge.

The tapes 2 are provided with a plurality of equally spaced female snap fasteners 4 of usual construction.

Brackets 3 are removably secured to the framework 4' by means of supports 5 which are provided with channels to receive the depending end 6 and bolt 7 of bracket 3. The channel on each support 5 has an enlarged circular opening to receive the head of bolt 7 to permit bracket 3 to be positioned thereon and moved to its supporting position as shown, and to be removed easily when desired. The specific means of removably mounting brackets 3 to supports 5 is unimportant, form no part of this invention and many variations are well known to those skilled in the art.

Brackets 3 are formed with a loop portion 8 at the top to form the initial fold when the drapery is installed. Male snap fasteners 9 of a number corresponding to the fasteners on each of the

tapes 2 are secured on each bracket 3, one on the top surface adjacent the loop 8 and the remaining on the vertically depending portion 10 in equal spaced relation but of a distance less than the distance between the snaps on the tape 2.

After the drapery 1 has been cut and finished to the size and shape as directed and the tapes sewn in position it is ready for installation on the brackets 3 which are removed from the supports 5. The top fastener on each tape is then snapped onto the top fastener on each bracket, the drapery folded around loops 8 and the second from the top fasteners snapped to the fasteners immediately under the loops 8 on the brackets 3. Thus the first fold is formed. The next fasteners on the tape 2 are then snapped to the next fasteners on the brackets 3. There being a greater distance between the second and third fasteners on the tapes than between the second and third fasteners on the brackets the drapery must be formed into a fold corresponding to the first one in order to permit the corresponding tape fasteners to be snapped to the corresponding bracket fasteners. Thus all the tape fasteners are secured to the bracket fasteners and the drapery assumes the folded position shown in Fig. 5.

When this is completed brackets 3 may be mounted on supports 5 and with a minimum of manual adjustment the drapery 1 appears as shown in Fig. 1.

The ease of assembly is apparent and once accomplished the appearance of the drapery with its equal graceful folds cannot be disturbed. Yet it can be removed for cleaning by reversing the process quickly and with a minimum of effort. Once the tapes are sewn in position they need never be removed for laundering or cleaning will not affect them or the fasteners.

Referring now to the modification shown in Figs. 6 to 10, the draperies 11 are cut and finished to a length desired and to a width corresponding to the length of tape 12, which is provided with a plurality of female fasteners 13 of usual construction, arranged in equally spaced vertical pairs as shown in Fig. 7. The tapes 12 are then sewn to the reverse sides of the tops of the draperies 11.

Supporting brackets 14 are shorter than the width of draperies 11 and are provided with a plurality of male snap fasteners 15 arranged in vertical pairs as shown in Fig. 8. These fasteners 15 are arranged in a plurality of horizontal pairs 16 spaced together a distance less than the distance between the fasteners 13 on tape 12. Securing means 17, such as screws, extend through brackets 14 for fastening them to the frame of the space to be decorated by the draperies or any supporting means may be secured thereto for fastening the assembly to swinging cranes or curtain rods of many varieties.

The male snap fasteners 15 are mounted on brackets 14 in vertical slots 18, as shown in Fig. 10, so as to be adjustable vertically. This is for the purpose of permitting the fasteners 13 on tape 12 to be secured to fasteners 15 even though tape 12 may shrink vertically due to cleaning.

Supporting brackets 14 are secured in a horizontal position to the frame of the space to be decorated at its upper corners. The fasteners 13 on the tapes are then snapped onto the fasteners 15 on the brackets 14. Because of the difference in spacing between the pairs of fasteners 16 on the bracket and the fasteners 13 on the tape the drapery is pleated or folded, as shown in Fig. 9 to produce the effect shown in Fig. 6. Thus the forming of the pleats or folds is automatic and regular and will be maintained. The draperies 11 can be unsnapped for cleaning and replaced with little effort.

Now referring to the modification shown in Figs. 11 to 15, by means of which a similar result is obtained as in Fig. 6, the draperies 19 are prepared in a similar manner with tape 20 sewn to the reverse top edge. Tape 20 has similar vertical pairs of equally spaced female snap fasteners 21 as shown in Fig. 7.

Instead of bracket 14, there are provided a plurality of rectangular card-like plastic, cardboard, fibre, metal or wire securing elements 22, each having two pairs of male snap fasteners 23, spaced vertically the same distance as the fasteners but horizontally closer together than those on the tape 20. Vertical slots 24 in elements or cards 22 permit vertical movement of fasteners 23 so even though tapes 20 should shrink vertically the corresponding fasteners on the tape and cards can be secured together. Supporting hooks or pins 25 are fastened to the back of cards 22.

In this modification the fasteners 23 on the cards 22 are snapped onto a pair of adjacent fasteners 21 of the tape 20. Due to the difference in the spacing of the fasteners the drapery 19 must be pleated or folded as shown in Figs. 12 and 15. When this has been done the reverse side of the drapery appears as shown in Fig. 11.

The completed assembly may then be hung where desired, the hooks 25 providing means for suspending the draperies, to traverse rods, cranes or a curtain rod 26 which is fastened to the window or door frame in the usual manner.

It is obvious that the plurality of cards or securing elements 22 may be formed as a continuous strip of a length corresponding to bracket 14 of Fig. 8 with the fasteners positioned in a similar manner, without departing from this invention, but for ease of assembly it is preferable to utilize the individual card fasteners.

We claim:

1. A drapery supporting and pleating device comprising a flexible tape secured to a drapery, a plurality of equi-spaced pairs of fasteners carried by the tape, a plurality of pleating and supporting plates, each plate carrying two pairs of fasteners extending from one face thereof said fasteners being adjustably mounted to permit the distance between them to be varied, each set of pairs being spaced closer laterally than the corresponding fasteners on the tape, the pairs of fasteners on the tape secured to those on the plates to hold the plates against and in alignment with the body of the tape whereby the tape is held in pleats at each plate and the parts of the tape extending between each plate are held in general alignment.

2. A pleated drapery assembly comprising a drape folded at intervals adjacent the top edge to form pleats and unpleated portions, a flexible tape secured adjacent a top edge of the drape, a plurality of equi-spaced fasteners secured to the rear of the unpleated portion of the tape adjacent each side of each pleat, a plurality of substantially rigid pleating and backing members having front and rear faces, each such member carrying fasteners extending outwardly from the front face thereof, said fasteners being spaced closer laterally than the corresponding fasteners on the tape, a supporting hook extending outwardly from the rear face thereof,

the fasteners on the tape secured to those on the backing members to hold the backing members against and in alignment with the unpleated body of the tape whereby the tape is held in pleats at each backing member with each member extending across the pleated portions and the parts of the tape extending between each backing members are held in general alignment by such members.

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