Dec. 8, 1931. S. GRASSI 1,835,644

CHAIN PORTIÈRE

Filed May 11, 1931

Fig.1.

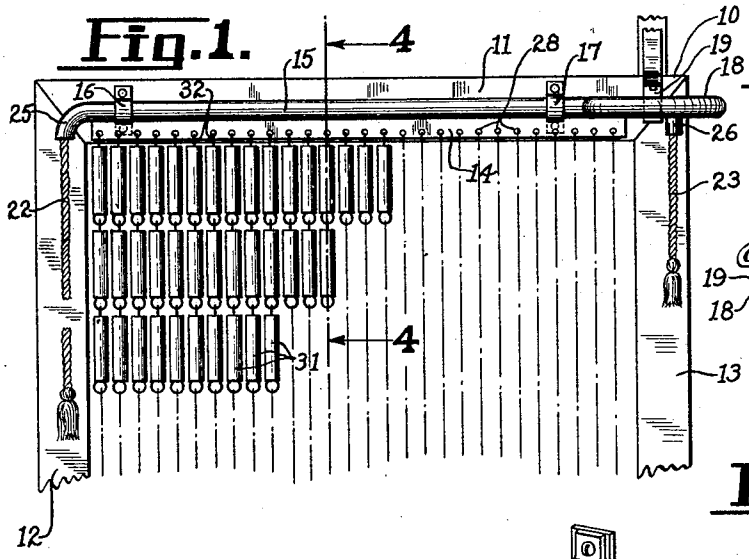


Fig.2.

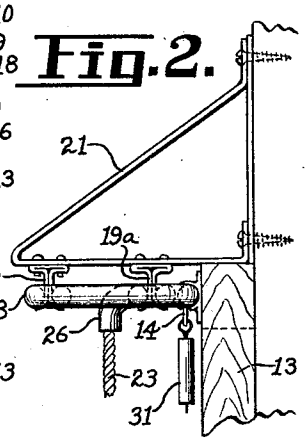


Fig.3.

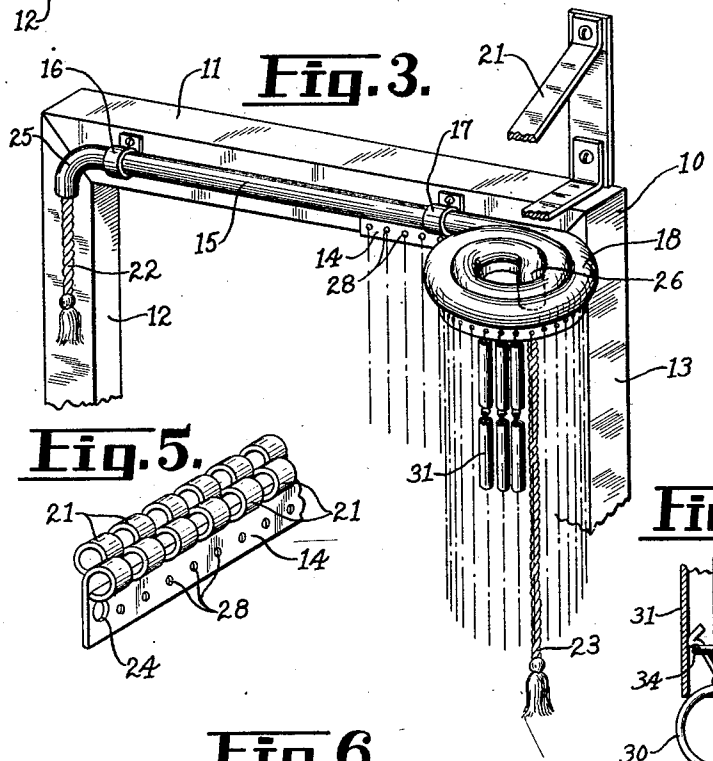


Fig.4.

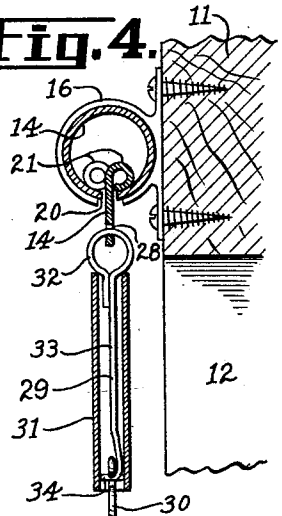


Fig.5.

Fig.7.

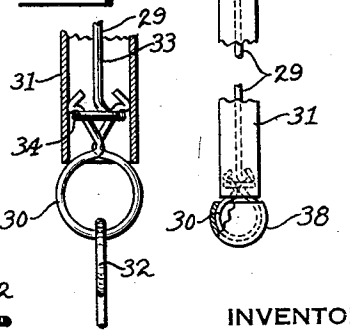
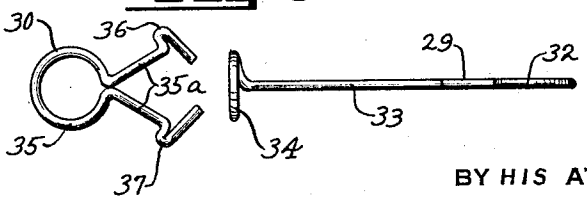


Fig.6.



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UNITED STATES PATENT OFFICE

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CHAIN PORTIÈRE

Application filed May 11, 1931. Serial No. 536,575.

This invention relates to a chain portière adapted to be hung over a doorway or the like, and more particularly to a portière that may be easily drawn to one side of the doorway.

One object of this invention is to provide a chain portière of the above nature consisting of a plurality of depending chains, the links of which may be easily and quickly detached from one another by means of a special tool for making repairs or for changing the ornamental design of the portière.

A further object is to provide a portière of the above nature that may be conveniently rolled into a very compact form when drawn to one side of the doorway.

A further object is to provide a portière in which the connecting links may be readily joined to each other by a snap action, but cannot be pulled apart unless a special tool is used.

A further object is to provide a portière of the above nature which will be simple in construction, inexpensive to manufacture, easy to install and manipulate, ornamental in appearance, and very efficient and durable in use.

With these and other objects in view there has been illustrated on the accompanying drawings one form in which the invention may be conveniently embodied in practice.

In the drawings:

Fig. 1 represents a fragmentary front view of a door frame upon which the invention has been installed, the portière being shown in a closed position.

Fig. 2 is an enlarged fragmentary right end view of the same showing the tubular coil supporting bracket.

Fig. 3 is a fragmentary perspective view of the same showing the portière in partly open position and drawn to one side of the door frame.

Fig. 4 is an enlarged sectional view taken along the line 4—4 of Fig. 1, looking in the direction of the arrows, and showing a portion of one of the portière chains as it appears when suspended from the flexible portière hanger device.

Fig. 5 is a fragmentary perspective detail view of the flexible portière hanger device.

Fig. 6 is an enlarged view in separated relation of the two sections of one of the chain links.

Fig. 7 is a fragmentary sectional view of the same, showing the link sections in assembled relation and located within an outer shell.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates a door frame consisting of a top member 11 and side members 12 and 13. The chains of the portière are adapted to be hung parallel to each other upon a flexible spring-steel hanger 14, said hanger being slidably mounted in a tubular housing member 15 which is securely fastened to the top member 11 of the doorway by means of a pair of tubular brackets 16 and 17.

In order to permit the portière to be opened and closed whenever desired, the right-hand end of the tubular housing 15 is provided with a tubular coil 18 rigidly held in place by two depending T-shaped brackets 19 and 19*a* riveted or otherwise secured to an overhanging triangular bracket 21 which may be screwed to the door frame or wall, as clearly shown in Fig. 2. The tubular housing 15 and its integral coil 18 are provided on their undersides with a long narrow slot 20 through which the portière hanger 14 is adapted to slide, said hanger being supported within this housing by a plurality of alternating staggered guide loops 21 formed integral with the upper part of the portière hanger 14. By means of this construction the hanger 14 will be adapted to slide smoothly within the inner periphery of said tubular housing 15 and coil housing 18.

Each end of the portière hanger 14 is provided with a pull cord 22, 23, said cords being connected to pierced apertures 24 in the opposite ends of said hanger. The cord 22 is adapted to pass down through an elbow 25 provided at the left-hand end of the tubular housing 15, and the cord 23 passes down out of the coil housing through a similar elbow 26, as most clearly shown in Figs. 1 to 3.

The flexible portière hanger 14 is provided in its lower edge with a row of spaced apertures 28, each aperture being adapted to support a chain consisting of a plurality of identical detachable links. As most clearly shown in Figs. 4, 6 and 7, each of said links comprises an eye section 29, and snap section 30, and an outer tubular ornamental shell section 31.

The connecting eye section 29 consists of a top vertical eye 32, a vertical shank 33, and a horizontal eye loop 34 which is adapted to receive the snap section 30. The snap link consists of a circular loop 35 and two diverging shanks 35*a* having converging hooked ends 36 and 37 adapted to pass within the eye loop 34 and to snap outwardly over the edge thereof into the position shown in Figs. 4 and 7. When the sections of the link are so connected, it will be impossible to separate them without the use of a special tool such as a jeweler's pliers, not shown, by means of which the diverging shanks 25*a* may be sprung together until the hooked ends 36 and 37 will clear the inner periphery of said loop 34. The lowermost links of the portière chains are provided with semi-spherical cap members 38 which embrace the loop sections 35 of the snap links 30, said cap members 38 serving to complete the chain and enhance the ornamental appearance thereof.

Operation

In the operation of connecting one link to the next adjacent link, it will first be necessary to insert the upper vertical eye 32 of the connecting eye section 29 through one of the spaced apertures 28 of the hanger 14. The ornamental shell 31 will next be slipped in position and the hooked ends 36 and 37 of the snap section 30 inserted through the horizontal eye loop 34 until said hooked ends snap over the edges of said eye loop 34. By means of this construction, it will be seen that any desired length of chain may be readily constructed.

If it is desired to close the doorway with the completed chain portière, it will be only necessary to pull on the left-hand pull-cord 22 as far as it will go. Conversely, the doorway may be opened by pulling on the right-hand pull-cord 23 in a similar manner, the chain portière being thus wound up in a compact vertical roll at the right-hand side of the doorway.

It will be understood that the tubular sections of the chain links may be made in any desired color or have any desired ornamentation applied thereto.

One advantage of a chain portière of this type is that it permits the free circulation of air through the door or other space in which it is hung, while at the same time shading the direct rays of sunlight and excluding insects.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosure but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a portière, a horizontal tubular housing, a flexible hanger slidable as a unit in said housing, a plurality of chains suspended from said hanger, and means for sliding said hanger to one end of said housing for opening said portière.

2. In a portière, a horizontal tubular housing having a spiral tubular coil at one end, a flexible hanger slidable in said housing and coil, a plurality of chains suspended from said hanger, and means for sliding said hanger within said housing and coil to operate said portière.

3. In a portière, a horizontal tubular housing, a flexible strip hanger slidable as a unit in said housing, a plurality of chains suspended from said hanger, and means for sliding said hanger to one end of said housing for opening said portière.

4. In a portière, a horizontal tubular housing having a spiral tubular coil at one end, a flexible hanger slidable in said housing and coil, a plurality of chains suspended from said hanger, and a pair of manually-operated pull cords connected to the ends of said hanger.

5. In a portière, a horizontal tubular housing, a flexible hanger slidable as a unit in said housing, a plurality of chains suspended from said hanger, and means for sliding said hanger to one end of said housing for opening said portière, the bottom of said housing having an open slot embracing said hanger.

6. In a portière, a horizontal tubular housing having a spiral tubular coil at one end, a flexible hanger slidable in said housing and coil, a plurality of chains suspended from said hanger, and means for sliding said hanger within said housing and coil to operate said portière, the bottoms of said housing and coil having open slots embracing said hanger.

7. In a portière, a horizontal tubular housing, a tubular coil connected therewith, means for supporting said housing and coil at the upper part of a doorway, a chain-supporting hanger slidably mounted in said housing and coil, and means for sliding said hanger to open and close the portière.

8. In a link for a chain, an eye section having a vertical eye at one end and a horizontal eye at the other end, a snap section comprising a loop for connection with said vertical

eye, and a pair of diverging shanks connected to said loop for detachable locking connection with said horizontal eye.

9. In a link for a chain, an eye section having a vertical eye at one end and a horizontal eye at the other end, a snap section comprising a loop for connection with said vertical eye, and a pair of diverging shanks connected to said loop for detachable locking connection with said horizontal eye, said shanks having converging extremities to facilitate the insertion of said snap section into said horizontal eye.

10. In a link for a chain, an eye section having a vertical eye at one end and a horizontal eye at the other end, a snap section comprising a loop for connection with said vertical eye, a pair of diverging shanks connected to said loop for detachable locking connection with said horizontal eye, and a shell section surrounding said eye section and snap section.

11. In a portière, a horizontal tubular housing having an open slot in its lower side, a chain-supporting hanger slidable within said slot to open and close the portière, said hanger having a plurality of alternately-bent staggered loop sections at its upper end located within said housing for suspending said hanger in position.

In testimony whereof, I have affixed my signature to this specification.

SERAFINO GRASSI.