July 9, 1940. I. WEISS ET AL 2,207,043

BARRIER ROPE

Filed Sept. 10, 1938

FIG. 1.

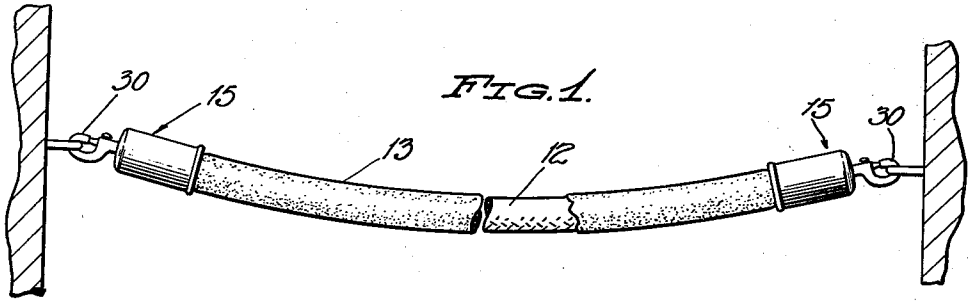


FIG. 2.

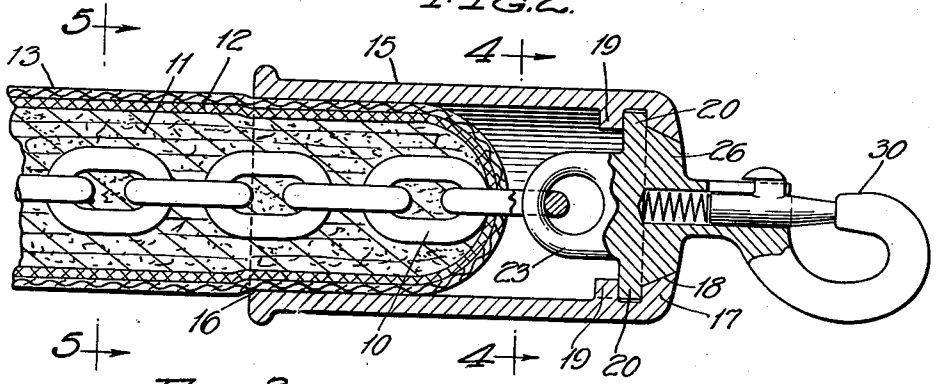


FIG. 3.

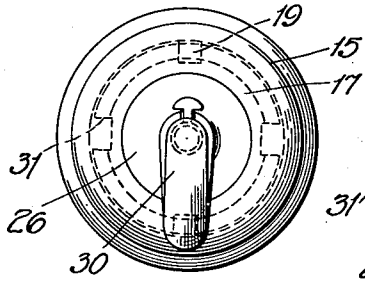


FIG. 6.

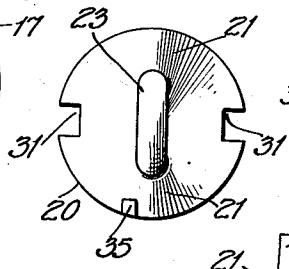


FIG. 4.

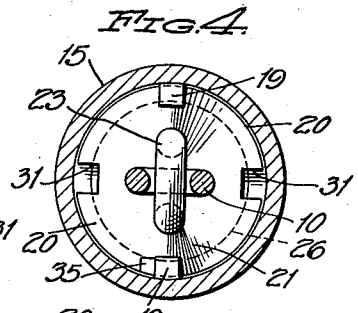


FIG. 7.

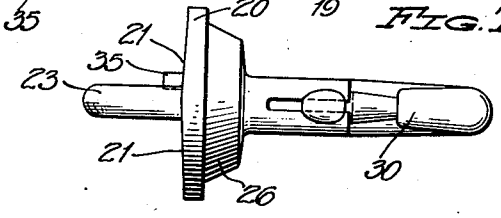
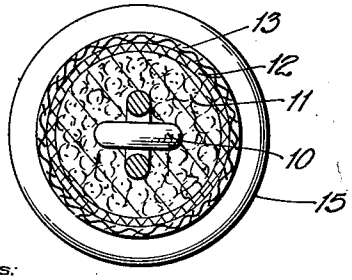


FIG. 5.



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BARRIER ROPE

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Application September 10, 1938, Serial No. 229,386

4 Claims. (Cl. 59—78)

This invention relates to new and useful improvements in barriers and more particularly it pertains to that class of barriers commonly employed by theatres in dividing areas of their lobbies and in blocking of isles, and commonly termed theatre ropes.

Such devices are generally of a highly ornamental character having plush or similar coverings and highly finished fittings and it is the object of this invention to improve the present construction of these devices, and more particularly the fittings thereof.

A feature of the present invention resides in a novel construction of ferrule with which such devices are equipped and its method of attachment to the rope.

Another feature of the invention resides in a novel construction whereby the ferrule member may be attached to or removed from the body portion at will.

Such devices are equipped with fittings by which they may be attached to walls, standards or other suitable supports and it is a further feature of this invention to provide new and novel means for attaching these fittings to the rope.

Other features of the invention will become apparent as the nature of the invention is better understood and for this purpose, reference will now be had to the following specification and claims and the accompanying drawing, in which:

Figure 1 is a view illustrating a theatre barrier constructed in accordance with this invention, the figure being partly broken away,

Figure 2 is a detail fragmentary longitudinal sectional view of one of the ends of the barrier, the view being on an enlarged scale,

Figure 3 is a view in end elevation,

Figure 4 is a transverse sectional view taken substantially on the line 4—4 of Figure 2,

Figure 5 is a transverse sectional view taken substantially on the line 5—5 of Figure 2,

Figure 6 is a view in end elevation of one of the fixtures, and;

Figure 7 is a plan view of the fixture shown in Figure 6.

A barrier constructed in accordance with the present invention consists of a non-extensible core member 10, herein illustrated as a chain, but it is to be understood that it is within the scope of this invention to employ a cable, or any type of non-extensible core member, so long as it is possessed of flexible qualities.

Surrounding the non-extensible core member 10 and arranged in parallelism therewith and with each other, there are several strands 11, preferably of a soft material of which cord may be cited as one very good example. The number of strands 11 which are employed is only limited by the diameter desired in the finished product and consequently varies in different sizes of barriers.

Enclosing the strands 11, there is a casing 12 herein illustrated as a woven fabric and this is the type of casing preferred although casings of other materials may, if desired, be employed.

The reference character 12 designates an ornamental covering preferably of plush or velvet and this ornamental covering may be secured in position to enclose the whole, in any desired manner, not herein illustrated.

The non-extensible core 10, the cord or similar strand 11, the casing 12 and the ornamental covering 13 constitute what we term herein, the flexible body portion and this flexible body portion is provided with suitable fittings which will now be specifically described.

Inasmuch as the fittings at each end of the barrier are of the same construction, but one set will be described.

Receiving and enclosing the end of the body portion, there is a ferrule member which is designated 15. This ferrule member 15 has an open end 16 and a contracted end 17 having an opening 18 therein, the defining edge of which is angular as best illustrated in Figure 2.

Extending radially of the interior of the ferrule member 15, there are spaced lugs 19 of which there are two shown herein and these lugs are preferably arranged diametrically opposite to each other.

The reference character 20 designates a disk-like member and one of its faces is provided with two cam faces 21, a projecting lug 35 and an eye or ring 23. The eye or ring 23 provides the means by which the disk-like member is attached to the non-extensible core member as best illustrated in Figure 2.

The opposite face of the disk-like member is provided with a tapering projecting portion 26 which, when the several parts are assembled, seats against the angular face 18 of the defining edge of the opening in the contracted end of the ferrule member. Extending from the projecting portion 26, there is a fastening element 30 herein illustrated as a snap hook for attachment of the barrier to a wall, stand or other supporting means.

The construction just described, provides means for the detachable attachment of the ferrule member to the end of the barrier and the

manner in which this is accomplished, will now be described.

The disk-like member 20 being affixed to the non-extensible core member, the ferrule member 15 is threaded onto the end of the barrier by passing the fastening element 30 through the opening in the contracted end of the ferrule member 15. The disk-like member and the ferrule member are so positioned with relation to each other that the notches 31 in the edge of the disk-like member 20 will receive the lugs 19, heretofore mentioned to permit the disk-like member to move to a position between the lugs 19 and the contracted end of the ferrule member 15. With the parts in the position just described, the ferrule member 15, and the disk-like member 20 are rotated relatively to each other to move the cam faces 21 of the disk-like member into engagement with the adjacent faces of their respective lugs 19, thereby to cause a binding action between the disk-like member and the lugs 19 which action secures the several parts together with the ferrule member 15 enclosing the end of the body portion. Rotation of the disk-like member 20 and the ferrule member 15 is limited by means of the lug 35 projecting from the disk-like member 20 and which is so positioned as to engage one of the lugs 19 when the parts are finally positioned.

To detach the ferrule member, it is only necessary to relatively rotate the ferrule member and the disk-like member in a direction opposite to that in which they were rotated in setting up the parts, until the notches 31 register with the lugs 19, when the ferrule member is free to slide off the end of the body portion.

From the foregoing, it is obvious that the present invention provides a new and novel device of the character specified in which each of the objects recited are accomplished.

Having thus described the invention, what is claimed as new, is:

1. A barrier rope comprising a flexible body portion, a non-extensible core extending longitudinally through the flexible body portion and projecting from the end thereof, a ferrule member for enclosing the free end of the flexible body portion and means for detachably connecting the ferrule member to the flexible body portion, said detachable connecting means including a plurality of lugs projecting from the interior of the ferrule member and means carried by the non-extensible core member for engagement behind said lugs.

2. A barrier rope comprising a flexible body portion, a flexible non-extensible core extending longitudinally through said body portion and projecting from the end thereof, a ferrule member for enclosing the free end of the flexible body portion, said ferrule member having its outer end contracted but having an opening therethrough, means carried by the non-extensible core for engagement with the ferrule member to removably secure the ferrule member upon the end of the flexible body portion, and means carried by the ferrule attaching means and projecting through the opening in the contracted end of the ferrule member for attaching the barrier member to a suitable support.

3. A barrier rope comprising a flexible body portion, a non-extensible core extending longitudinally through said flexible body portion and projecting from the end thereof, a ferrule member for enclosing the free end of the flexible body portion, and means for detachably connecting the ferrule member to the flexible body portion, said means including a plurality of spaced lugs projecting radially inwardly of the ferrule member, a disk-like member carried by the non-extensible core member, said disk-like member having peripheral notches to receive the lugs of the ferrule member to permit the disk-like member to pass to position behind said lugs, said ferrule member and said disk-like member being relatively rotatable to lock the disk-like member behind said lugs, and means for limiting the relative rotating movement between the ferrule member and the disk-like member.

4. A barrier rope comprising a flexible body portion, a non-extensible core extending longitudinally through said flexible body portion and projecting from the end thereof, a ferrule member for enclosing the free end of the flexible body portion, and means for detachably connecting the ferrule member to the flexible body portion, said means including a plurality of spaced lugs projecting radially inwardly of the ferrule member, a disk-like member carried by the non-extensible core member, said disk-like member having peripheral notches to receive the lugs of the ferrule member to permit the disk-like member to pass to position behind said lugs, said ferrule member and said disk-like member being relatively rotatable to lock the disk-like member behind said lugs, and cam faces upon the lug engaging face of the disk-like member.

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