

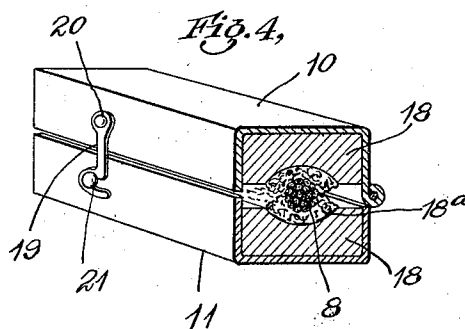
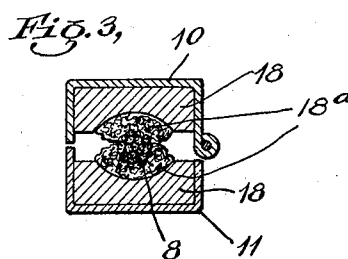
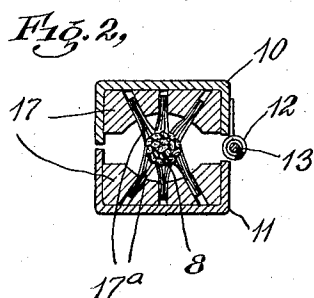
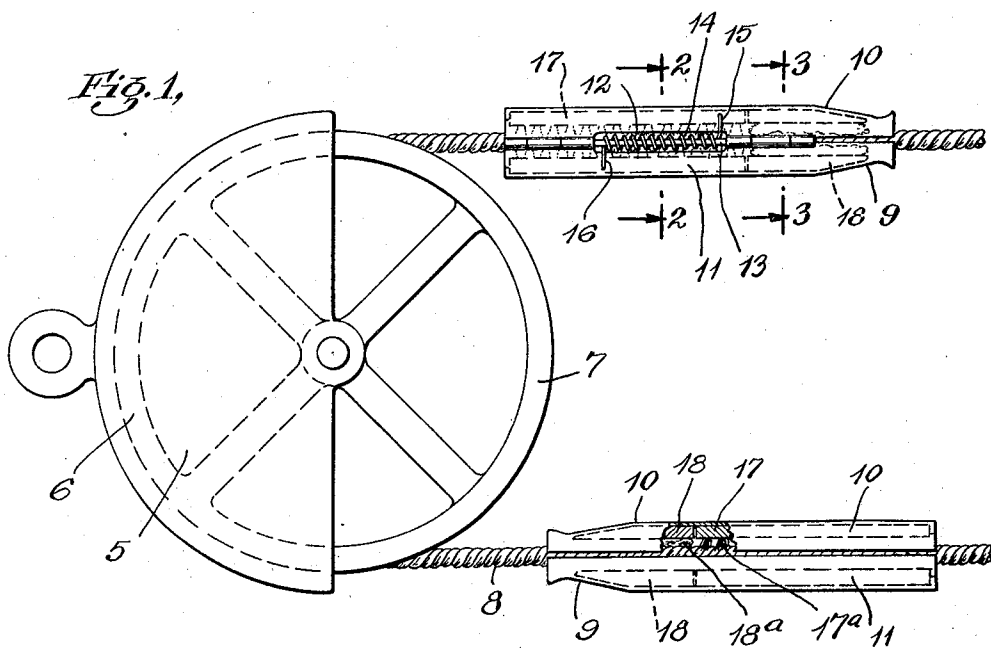
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DEVICE FOR CLEANING LINES OR STRANDS

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DEVICE FOR CLEANING LINES OR STRANDS

Application filed May 23, 1928. Serial No. 280,096.

This invention relates to devices adapted for mounting on lines, strands, cables or the like for the purpose of cleaning, wiping or otherwise treating such strand-like bodies, and particularly to devices of this class for use in connection with clothes-lines; and the object of the invention is to provide a device of the class described involving separate relatively movable parts within and between which a line, strand, cable or the like is mounted and adapted to be passed, said device being supported solely by the strand-like body and being movable with respect thereto or being retained in fixed position in the passage of the strand through the device; a further object being to provide a device of the class described involving two box-shaped or casing portions hinged together at one side with means for retaining said parts in coupled relation, said means involving a spring or a catch or a coupling device as may be desired; a further object being to provide brush and wiper elements or similar elements preferably detachably mounted in the separate casing portions and adapted to engage the strand for cleaning the same or other purposes; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a side view of a pulley showing part of a line engaging the same with two of my improved devices mounted in connection therewith.

Fig. 2 is a section on the line 2—2 of Fig. 1.

Fig. 3 is a section on the line 3—3 of Fig. 1;

and Fig. 4 is a sectional and perspective view showing a slight modification.

In Fig. 1 of the drawing, I have shown for the purpose of illustrating one use of my invention a clothes-line pulley 5, comprising a

casing 6 in which the pulley wheel 7 is rotatably mounted, and the clothes-line is represented at 8. It will be understood that this line may be a line or strand of any kind or class composed of fabric, cord, wire, cabling or the like. At 9, I have shown mounted on the separate side portions of the strand 8, two of my improved devices.

The devices 9 shown in Fig. 1 are of identical construction, and only one of these devices will be specifically described. The device consists of two box-shaped or channel-shaped casings or parts 10 and 11 which are of substantially identical construction and the channels of which are directed toward each other, one side of said parts being fashioned to form interengaging hinge knuckles 12 receiving a hinge pin or rod 13, the knuckles being arranged adjacent the opposite end portions of said parts and the central portion of the pin 13 is blank. Mounted thereon is a spring 14, one end 15 of which engages the part 10, and the other end 16 the part 11 to normally retain said parts in closed and abutting relation under the tension of said spring.

Mounted in the channels of the parts 10 and 11 are brush bodies 17 arranged at one end of the device and wiper bodies 18 arranged at the other end of the device. The body 17 has brush elements 17^a whereas the wipers include wiping elements 18^a, the latter being composed of any suitable material having certain flexible properties permitting the tensional engagement thereof with the line or strand 8 under the tension of the spring 14.

Many other means may be provided for securing the two parts 10 and 11 together or for forcing the elements 17^a and 18^a into engagement with the strand 8. For example, in Fig. 4 of the drawing, I have shown the parts 10 and 11 secured together by a hook catch device 19 pivoted to the part 10 as seen at 20 and engaging a headed pin 21 on the part 11. But, it is preferred that some more elastic tensional means be provided for producing the engagement and one which will compensate for wear and different sizes of strands within a reasonable degree. Aside from the use of the catch device

19 and the elimination of the spring 14, the structure shown in Fig. 4 is identical with that shown in the other figures, it being understood that at least two of the catch devices 19 are employed, one at each end of the device.

My improved device may, by virtue of its construction, be readily attached or detached from a line, strand or the like and may be moved longitudinally thereof by hand or retained in fixed position by any suitable means and the line passed therethrough. Whenever desired, the device may be removed from the line or strand and the bodies 17 and 18 may be removed therefrom for cleaning or other purposes.

My present invention forms an improvement over the structure shown in a companion application filed by me of equal date herewith, wherein a substantially similar type of a device constitutes part of a pulley structure. But, in the present case, the device is totally independent of the pulley structure and may be mounted upon a line, strand or strand-like body of any kind or class as hereinbefore stated and may further have other distinct uses than the use which is herein illustrated purely from a standpoint of disclosing one use or method of carrying the invention into effect, in which use, it constitutes a cleaning device for clothes-lines.

The device may however, be used for cleaning other strand-like bodies or as a treatment or applicating device involving bodies supported in engagement with the strand passed therethrough or along which the device is moved. My invention is not necessarily limited to the specific structure herein disclosed, and various changes therein and modifications thereof may be made within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

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

1. A device of the class described comprising an elongated and substantially box-shaped casing consisting of substantially similar and movably coupled parts, tensional means for normally supporting said parts in adjacent relation, cleaning members involving mounting bodies of rigid material arranged in the chambers of said parts and retained against displacement by the side and end walls of said parts and detachably coupled with respect thereto, the cleaner elements of said members being arranged adjacent and adapted to engage a strand-like body positioned between said elements under the tension of said tensional means, said cleaning members involving independent bodies in each part of the device and the cleaning elements of one body being of brush-

like material and the other of a wiper material.

2. A device of the class described comprising an elongated and substantially box-shaped casing consisting of substantially similar and movably coupled parts, tensional means for normally supporting said parts in adjacent relation, cleaning members involving mounting bodies of rigid material arranged in the chambers of said parts and retained against displacement by the side and end walls of said parts and detachably coupled with respect thereto, the cleaner elements of said members being arranged adjacent and adapted to engage a strand-like body positioned between said elements under the tension of said tensional means, said cleaning members involving independent bodies in each part of the device, and the cleaning elements of one body being of brush-like material and the other of a wiper material, and the separate parts of the casing being contracted at one end thereof.

In testimony that I claim the foregoing as my invention I have signed my name this 14th day of May, 1928.

SEBASTIANO PILLA.