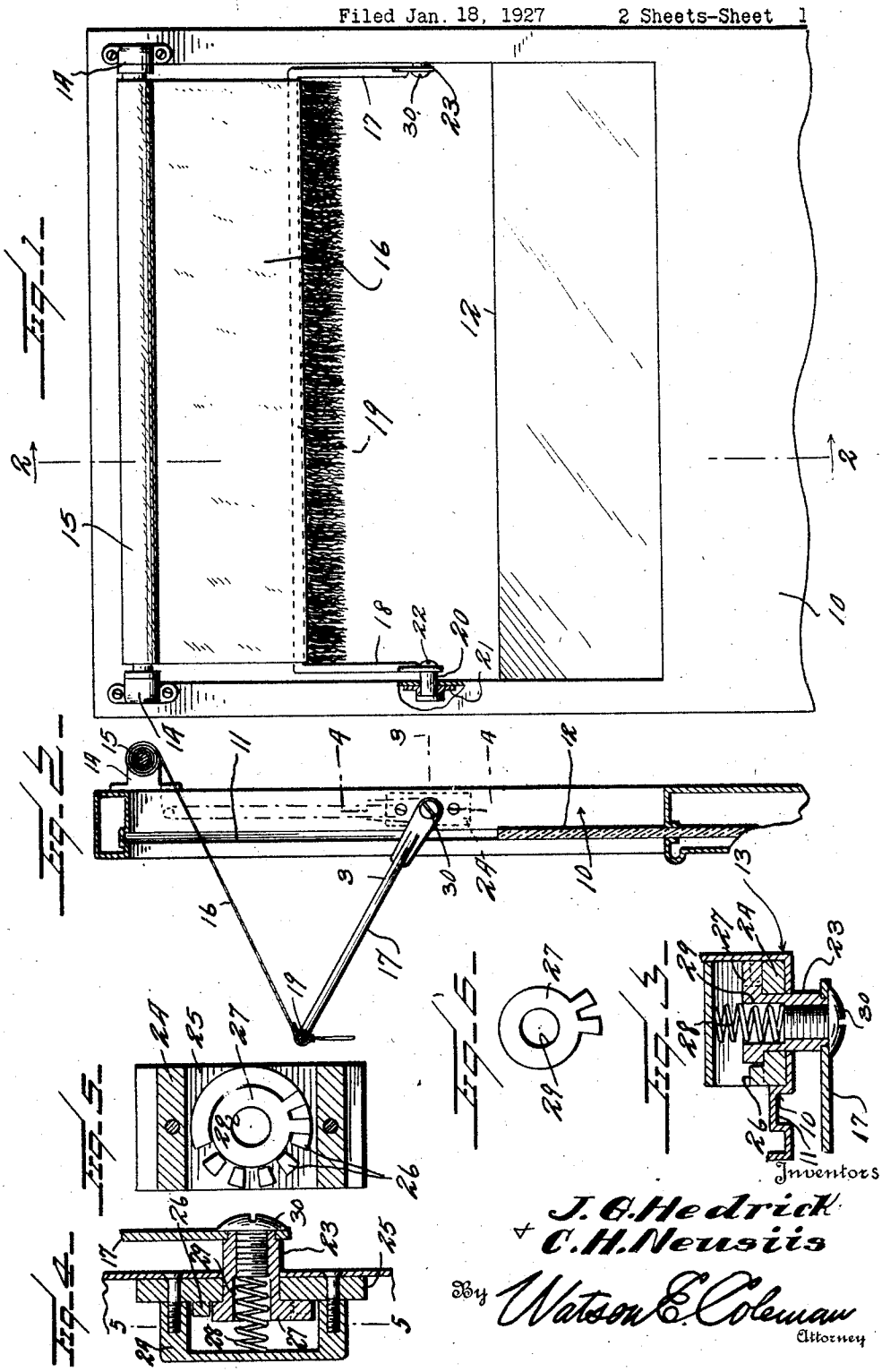
Aug. 21, 1928. 1,681,585

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ADJUSTABLE SHADE AND AWNING FOR AUTOMOBILE AND OTHER WINDOWS

Filed Jan. 18, 1927 2 Sheets-Sheet 1



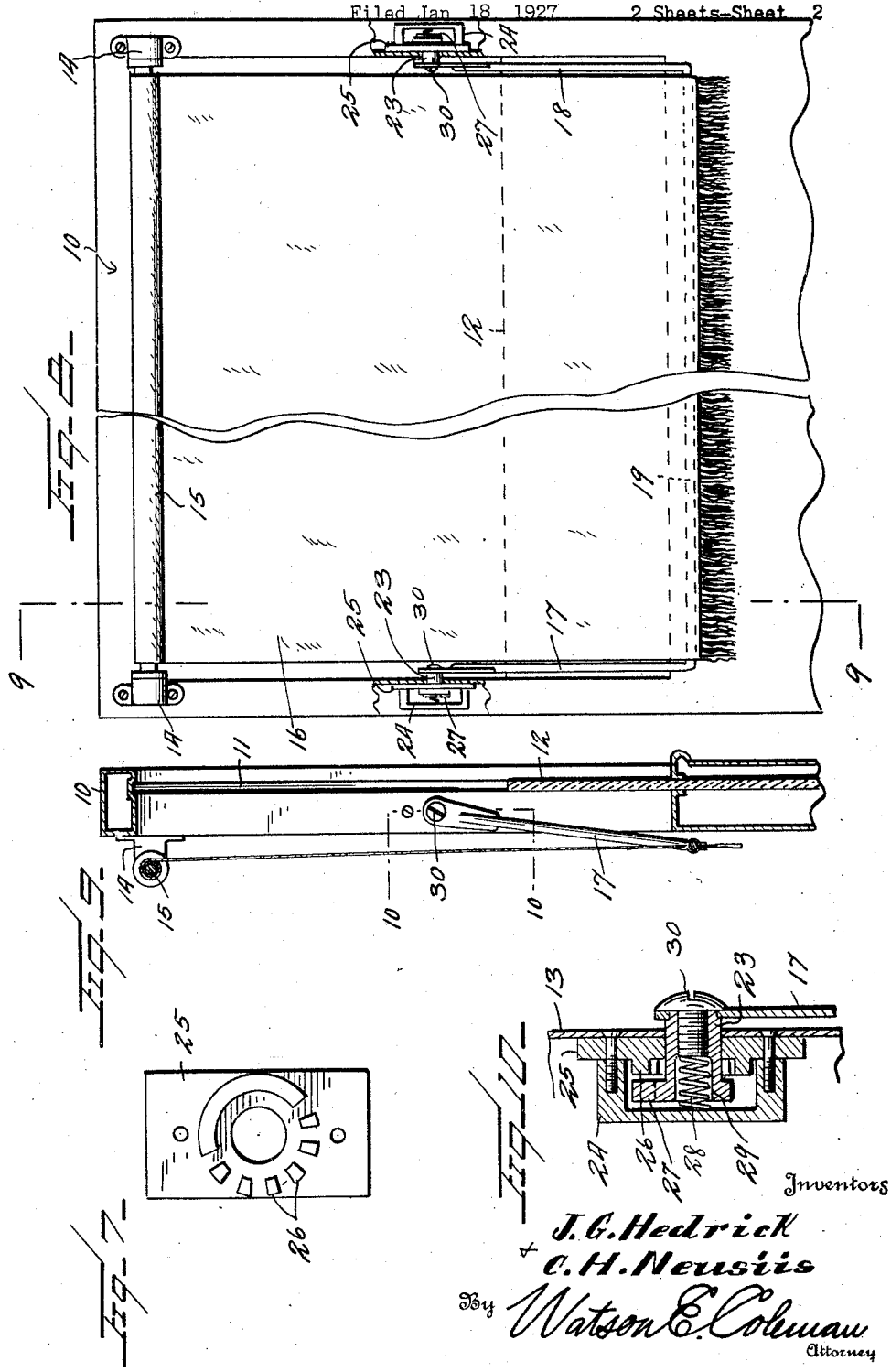
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ADJUSTABLE SHADE AND AWNING FOR AUTOMOBILE AND OTHER WINDOWS

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Patented Aug. 21, 1928. 1,681,585

UNITED STATES PATENT OFFICE.

JOSEPH G. HEDRICK, OF HAILEY, IDAHO, AND CARL H. NEUSIIS, OF BAKER, OREGON.

ADJUSTABLE SHADE AND AWNING FOR AUTOMOBILE AND OTHER WINDOWS.

Application filed January 18, 1927. Serial No. 161,879.

This invention relates to shades designed for use on automobiles but not limited thereto, and particularly to a combined shade and awning including a spring roller and a shade mounted thereon with means for holding the shade in various positions either to partially or entirely obstruct view through the window or to hold the shade in a plurality of different positions relative to the window.

A still further object is to provide arms for supporting and holding the free end of the shade and provide means mounted upon the window casing or frame whereby these arms may be held in any one of a plurality of different angular positions, and in this connection to provide a holding device including a spring clutch, as it may be called, which positively locks the arms in any desired adjusted position, but which may be released to permit the spring to roll up the shade by a mere pressure upon a button connected to said clutch.

Other objects will appear in the course of the following description.

Our invention is illustrated in the accompanying drawings wherein:—

Figure 1 is an elevation of a window frame with our shade and awning applied thereto;

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

Fig. 3 is a detailed sectional view on the line 3—3 of Figure 2;

Fig. 4 is a section on the line 4—4 of Figure 2;

Fig. 5 is a section on the line 5—5 of Figure 4;

Fig. 6 is an elevation of one of the clutch members;

Fig. 7 is an elevation of the clutch plate;

Fig. 8 is an elevation of a window frame curtain;

Fig. 9 is a section on the line 9—9 of Figure 8;

Fig. 10 is a section on the line 10—10 of Figure 9 but showing the clutch released.

Referring to these drawings 10 designates a window frame such as the window frame of an automobile window, which window frame is formed with the groove 11 in which the pane 12 is adapted to slide. This frame 10 is preferably formed of laterally disposed channel irons 13, though I do not wish to be limited to this.

Mounted upon the inside of the window frame at the upper corners thereof are the outwardly projecting brackets 14 having openings for the trunnions of a shade roller 15. This shade roller is of the spring type and carries the shade 16 of textile fabric. The spring within the shade roller acts at all times to roll up the shade.

The free end of the shade 16 is carried by the arms 17 and 18 which are connected by an integral cross bar 19 passing through a hem or fold formed on the lower end of the shade 16. The arm 18 at its inner end is formed with an eye through which passes a screw 20 having a relatively enlarged head, this screw constituting a pintle and extending through a bearing member 21 bolted, riveted or otherwise attached within the channel 13. A head 22 engages the end of this pintle and the arm 18 is thus supported for oscillation.

The arm 17 is likewise formed with an eye and engaged with this eye is a pintle 23 which extends through the channel iron 13 and into a casing 24, riveted, bolted or otherwise attached to the channel iron 13. Within this casing 24 and attached to the inner wall 25 thereof are the arcuately arranged gear teeth 26 and disposed upon the inner end of the pintle 23 and carried thereby is a toothed head 27. A spring 28 bears against the outer wall of the casing 24 and has its inner end disposed within a recess 29 in the head 27 and acts to force this pintle inward and to urge the gear teeth on the head 27 into engagement with the teeth 26 and it will thus be understood that the toothed head 27 and the teeth 26 together constitute a clutch and that when the parts are in the position shown in Figure 5 the pintle 23 will be held from rotation. The arm or rod 18 is fixed upon and oscillates with the pintle 23. So long as the head 27 is in clutching engagement with the teeth 26, the arm 17 and, therefore, the arm 18, are held from movement but as soon as the pintle 23 is forced inward so as to cause the toothed head 27 to escape from engagement with the teeth 26, the spring roller 15 will act to roll up the shade. As soon as pressure is released on the pintle 23, however, the spring 28 will act to shift the head 27 and the pintle 23 outward and cause the re-engagement of head 27 with teeth 26. The pintle 23 carries a screw 30 which holds the

arm 17 in engagement with the pintle 23 and also acts as a button whereby the pintle may be forced inward.

It will be seen with this construction that the curtain may be readily pulled down and that it will act as an awning. In order to cause a raising of the curtain it is only necessary to press inward on the button or screw head 30 and upon the pintle 23 when the curtain will be released and the shade roller will wind the curtain up. The windows or window sashes can be raised or lowered at any time without interferring with the shade or awning and at any time the shade may be pulled down so as to entirely close the window opening. When the shade is not in use, it is rolled up and entirely out of the way or the shade may be pulled down inside so as to entirely close the window opening or so that it will be in a downwardly and outwardly inclined position and act as an awning. It is not necessary with our device that the arms engaging the shade be held in adjusted position by a thumb nut or other manually adjustable means which is liable to slip. Our construction provides a spring actuated clutch which automatically engages the shade arms at any desired points and holds these shade arms positively in their adjusted positions. At the same time, it is readily released by simply pressing inward on the pintle of the arm 17. While we have illustrated only one of the arms for the shade as being provided with a manually releasable clutch, it is to be understood that for large window openings where a relatively large curtain is used, both of the arms may be provided with the spring clutch, as in Fig. 8. While this device is particularly applicable to the window openings of automobiles and other vehicles, it is obvious that it may be used for the window openings of buildings and in other situations. It is also obvious that many changes may be made in the details of construction and arrangement of parts which we have illustrated without departing from the spirit of the invention as defined in the appended claims.

We claim:—

1. In a roller awning construction of the type commonly mounted in the inside of window frames, a mounting comprising a casing having a central opening and a series of teeth disposed radially around the central opening, a tubular pintle entering the central opening and having a shoulder at its outer end, said pintle having radial teeth extending over the margin of the opening and engageable with the teeth on the front of said casing, a headed screw having its shank engaging in the central opening of the pintle, the head of the screw being adapted to engage over a member mounted on the pintle and a spring disposed within the casing bearing against said screw and urging the pintle outward but permitting the inward movement of the pintle to disengage the teeth of the pintle from the teeth of the casing.

2. In a roller awning construction of the type commonly mounted in the inside of window frames, a mounting including a casing formed of a facing section and a back section, the facing section being formed with a central opening and outwardly of said opening being formed with radial teeth, means detachably engaging the front section of the casing to the back section thereof, a tubular pintle entering the central opening of said casing and having radial teeth adapted to engage with the teeth on the front plate, a headed screw engaging the forward end of the tubular pintle and a coil compression spring disposed behind said screw and bearing against the rear casing.

In testimony whereof we hereunto affix our signatures.

JOSEPH G. HEDRICK.
CARL H. NEUSIIS.