Sept. 3, 1940. S. E. HEREN 2,213,909

LICENSE TAG SUPPORTING FRAME

Original Filed Dec. 22, 1938 2 Sheets-Sheet 1

Fig. 1.

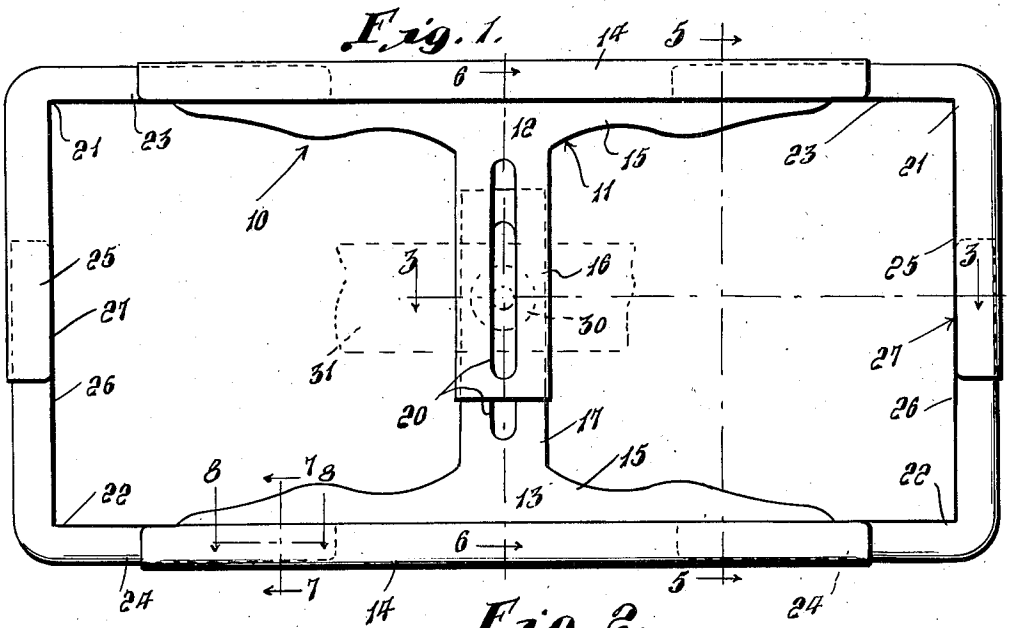
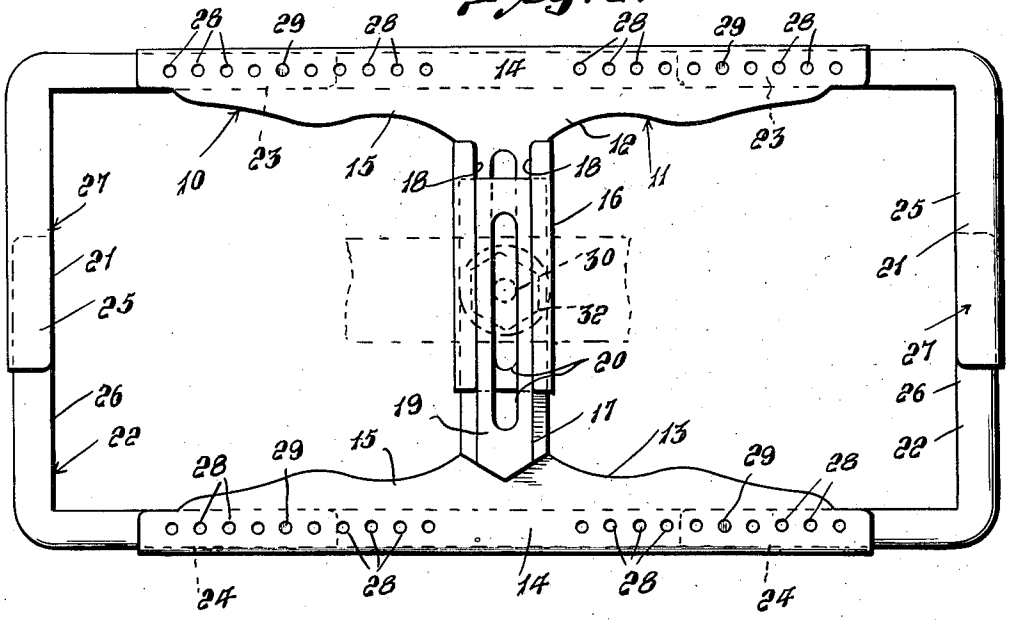


Fig. 2.



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Fig. 3.

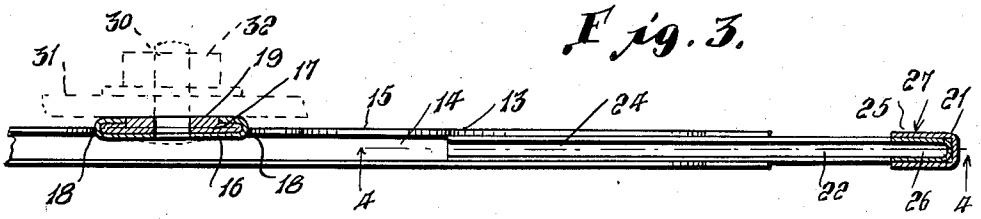


Fig. 4.

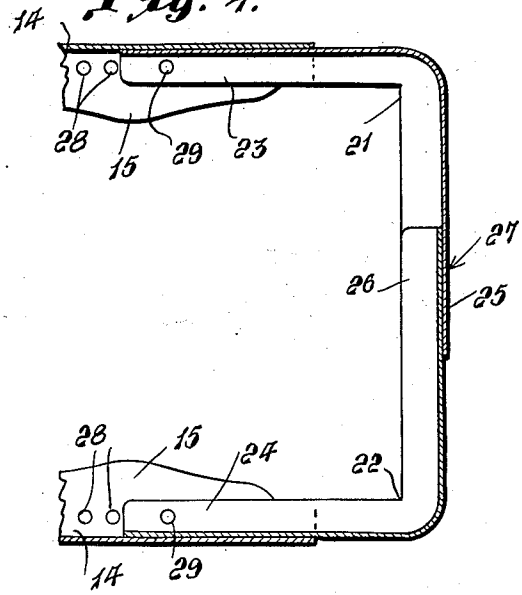


Fig. 5.

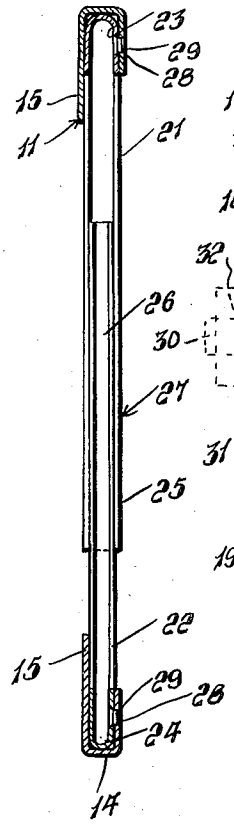


Fig. 6.

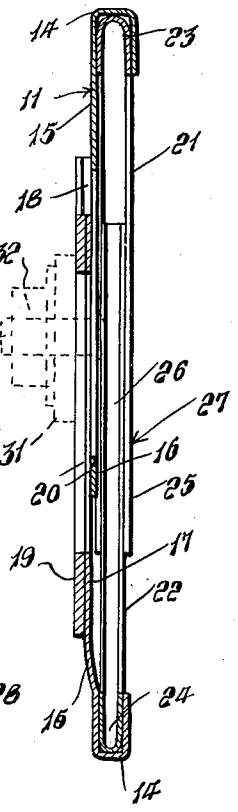


Fig. 7.

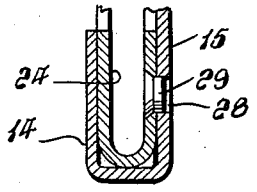
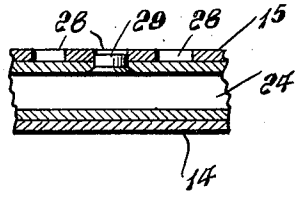


Fig. 8.



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UNITED STATES PATENT OFFICE

2,213,909

LICENSE TAG SUPPORTING FRAME

Sol E. Heren, Phoenix, Ariz.

Application December 22, 1938, Serial No. 247,260
Renewed May 23, 1940

10 Claims. (Cl. 40—125)

This invention relates to an improved adjustable frame adapted to support license tags of various sizes by engagement with the edge thereof whereby the indicia thereon will not be obscured.

It is a primary object of this invention to provide a frame for license plates channel shaped in cross section to engage the edge of the plate and provided with means whereby the frame may be longitudinally and laterally adjustable for plates of different sizes.

More particularly, it is an aim of this invention to provide a license tag frame adapted to securely engage the edge of the plate, at all points to eliminate rattling by preventing movement of the plate relatively to the frame or holder.

Still a further aim of the invention is to provide improved means for adjustably mounting angle shaped corner members in a central supporting member and for adjustably positioning the sections of the central supporting member relatively to each other.

Still another aim of the invention is to provide a frame for license tags of simple construction which may be economically manufactured and readily applied to or removed from a license tag; by means of which the tag may be quickly and easily attached to or removed from a tag supporting bracket of a motor vehicle; and which will increase the beauty of a vehicle to which it is applied.

Other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawings, which illustrate a preferred embodiment thereof, and wherein:

Figure 1 is a front elevational view of the assembled frame,

Figure 2 is a rear elevational view of the same,

Figure 3 is a horizontal sectional view taken along the line 3—3 of Figure 1,

Figure 4 is a vertical sectional view taken along the line 4—4 of Figure 3,

Figure 5 is a transverse vertical sectional view taken along the line 5—5 of Figure 1,

Figure 6 is a transverse vertical sectional view taken along the line 6—6 of Figure 1,

Figure 7 is an enlarged vertical sectional view taken along the line 7—7 of Figure 1, and

Figure 8 is an enlarged horizontal sectional view taken along the line 8—8 of Figure 1.

Referring more particularly to the drawings, wherein like reference characters designate like or corresponding parts throughout the different views, 10 designates generally the assembled license tag frame which includes the central supporting member, designated generally 11 and comprising the sections 12 and 13.

Sections 12 and 13 are each provided with a longitudinally disposed channel shaped portion 14 having the corresponding elongated or enlarged back edges 15. Projecting laterally from the back edges 15, intermediate of their ends, are the shanks 16 and 17, respectively. The side edges of the shank 16 are turned inwardly to form the channels 18 adapted to slidably engage the edges of the shank 17 and to form a telescoping connection therewith. The central portion of the shank 17, on its front or exposed side is thickened, as indicated at 19, to lie flush with the inturned edges of the shank 16, for a purpose which will hereinafter be described. Shanks 16 and 17 are provided with the longitudinally disposed alined and communicating slots 20.

A pair of angular or L-shaped corner members 21 have their corresponding ends 23 slidably mounted in the ends of the channel portion 14 of the section 12, and a pair of similar shaped corner members 22 have their corresponding ends 24 slidably mounted in the ends of the channel portion 14 of the section 13. Corner members 21 are slightly larger, in cross section, than corner members 22, and both the corner members 21 and 22 are channel shaped in cross section and are disposed with their free ends 25 and 26, respectively, projecting toward each other so that the corner members 21 and 22 at corresponding ends of the central supporting member 11 have their ends 25 and 26 in telescoping engagement, as best seen in Figure 5. It will thus be seen that corner members 21 and 22 combine in pairs to form corresponding telescoping U-shaped members 27 having their free ends slidably engaging corresponding ends of the channel portions 14 to form therewith a rectangular frame channel shaped throughout.

The back edges 15 of the channel portions 14 are provided at each end with a row of spaced openings 28 adapted to selectively receive the studs or pins 29 one of which is mounted in the back edge of each of the ends 23 and 24. Studs 29 are spaced from the free ends of the portions 23 and 24 and are disposed so that when in engagement with one of the openings 28 the ends 23 and 24 will seat in the bottom of the channel portions 14 to prevent the corner members 21 and 22 from pivoting on their studs 29 and to be thereby rigidly mounted relatively to the supporting member 11.

A bolt 30 projects through the alined slots 20

and through a license plate supporting bracket 31, and is provided with a nut 32 by means of which the license tag frame 10 is removably secured to the bracket 31. Nut and bolt 30 and 32, respectively, in addition to fastening the frame 10 to the bracket 31 also function as a clamping member to clamp the shanks 16 and 17 relatively to each other and in their adjusted position, and it is for this purpose that the thickened portion 19 is provided to engage bracket 31 to force the shank 17 into clamping engagement with the intermediate portion of the shank 16, as best seen in Figure 3.

From the foregoing it will be seen, that the ends 23 and 24 of the corner members 21 and 22 may be adjustably positioned relatively to the channel portions 14 and secured in adjusted position by the studs 29 and openings 28 to thereby adjust the length of the frame 10 to correspond to the length of the license plate, not shown, to be mounted therein. It may be here stated that the material of which the sections 12 and 13 are formed should be sufficiently resilient so that the back edges 15 may be sprung outwardly to receive the studs 29, and to spring inwardly when released so that one of the openings 28 will move into engagement with each of the studs 29. In the preferred manner of assembling and mounting a license plate in frame 10 one of the U-shaped members 27 is first adjustably positioned, after which the license plate is inserted and the corner members 21 and 22, comprising the other U-shaped member 27, are then applied and adjustably positioned until the marginal edge of the license plate is snugly seated in the channel portions of both U-shaped members 27. The frame 10 is then adjusted laterally by sliding shanks 16 and 17 inwardly of each other until the longitudinal edges of the license plate are snugly seated after which by securely fastening the frame 10 to the bracket 31, as heretofore described, the frame 10 is clamped in its adjusted position to securely hold the license plate.

Various modifications and changes in the precise construction and arrangement of the parts forming the invention are contemplated and may obviously be resorted to, and the right is therefore expressly reserved to make such modifications and changes as fall within the spirit and scope of the invention as hereinafter defined by the appended claims.

I claim as my invention:

1. An article of the class described comprising a frame formed of telescoping sections, said sections having longitudinally disposed channel shaped portions, pairs of angle shaped channel members having corresponding ends engaging corresponding ends of said channel portions, the free ends of said angle members being disposed in telescopic engagement, and means for adjustably connecting said angle shaped members to said frame sections.

2. A license plate frame comprising a support formed of telescoping sections, said sections having longitudinally disposed channel portions, pairs of angle shaped end members, said pairs of end members having corresponding ends slidably engaging corresponding ends of said channel portions, and said end members being channel shaped with the free ends of each pair in telescopic engagement to form with the channel portions of said support an endless channel shaped frame.

3. An article as in claim 2, said sections having laterally projecting shanks slidably disposed relatively to each other and provided with communicating slots adapted to receive fastening means adapted to connect said frame to a license plate supporting bracket, and said fastening means clamping said shanks for retaining said sections in adjusted position relatively to each other.

4. A license plate holder comprising pairs of L-shaped channel members, each of said pairs of L-shaped members having corresponding ends in telescoping engagement, a supporting member formed of laterally telescoping sections, each of said sections having a longitudinally disposed channel portion, the free ends of each of said pairs of L-shaped members being slidably mounted in the corresponding ends of the channel portions of said supporting member, and said L-shaped members and supporting member combining to form an adjustable frame capable of being extended longitudinally and laterally.

5. An adjustable license tag frame comprising a central supporting member formed of sections, each of said sections having a longitudinally disposed channel shaped portion, shanks projecting laterally from corresponding edges of said channel shaped portions, said shanks being disposed in telescopic engagement for laterally adjusting said sections, L-shaped channel members each having an end in telescopic engagement with an end of said channel portions, the free ends of the L-shaped members, mounted in corresponding ends of said sections, being disposed in telescopic engagement to form with said channel portions a continuous frame, channel shaped in cross section, and longitudinally and laterally extensible.

6. An extensible license plate supporting frame comprising a central supporting member formed of telescoping sections each provided with a longitudinal channel shaped portion, said channel shaped portions having rows of spaced openings at each end, L-shaped corner members each having an end engaging an end of one of said channel portions, said ends being provided with studs to selectively engage said openings for adjustably positioning said L-shaped members relatively to said channel portions, and the free ends of said L-shaped members being disposed in overlapping engagement to form an endless frame.

7. A license plate supporting frame comprising a central supporting member formed of sections each having a longitudinal channel shaped portion, shanks projecting from the rear edges of said channel shaped portions, the sides of one of said shanks being channeled to receive and slidably engage the sides of the other shank, said shanks having alined slots adapted to receive a clamping member for adjustably positioning said sections relatively to each other, the back edge of said channel portions being provided with a plurality of spaced openings at each end, L-shaped corner members each having an end in telescopic engagement with an end of said channel portions, and said ends being provided with studs to selectively engage said openings for adjustably positioning said L-shaped members relatively to the central supporting member, said L-shaped members being channel shaped in cross section, the free ends of the L-shaped members, disposed in the corresponding ends of the channel shaped portions, being disposed in telescopic engagement to thereby form a rectangular frame, channel shaped in cross section, and adapted to receive the marginal edge of a license plate.

8. A license plate holding frame comprising a pair of U-shaped members channel shaped in cross section, said U-shaped members each being

formed of a pair of L-shaped members having their connected ends in telescopic engagement, the free ends of said U-shaped members being provided with outwardly projecting studs, a central supporting member formed of telescoping sections, fastening means adapted to connect said central supporting member to a license plate supporting bracket, said fastening means clamping said sections in adjusted position, and said sections being provided with longitudinally disposed channel shaped portions provided with rows of spaced openings at each end, the free ends of said U-shaped members telescoping into ends of said channel shaped portions and being adjustably positioned therein by positioning each of said studs in one of said openings to provide an endless frame channel shaped in cross section, and longitudinally and laterally extensible.

9. A license plate frame comprising a support formed of slidably connected sections, said sections having channel shaped end portions, pairs of angle shaped members each having corresponding ends slidably engaging corresponding ends of said channel shaped end portions, and the free ends of said angle shaped members being slidably connected to form with said support sections an endless frame.

10. A device as in claim 9, said angle shaped members being channel shaped in cross sections, and means for retaining said sections and members in adjusted positions.

SOL E. HEREN.