

J. B. RIEHL.
 NOTCH OR RUNNER HEAD FOR UMBRELLAS AND PARASOLS.
 APPLICATION FILED APR. 26, 1909.

979,561.

Patented Dec. 27, 1910.

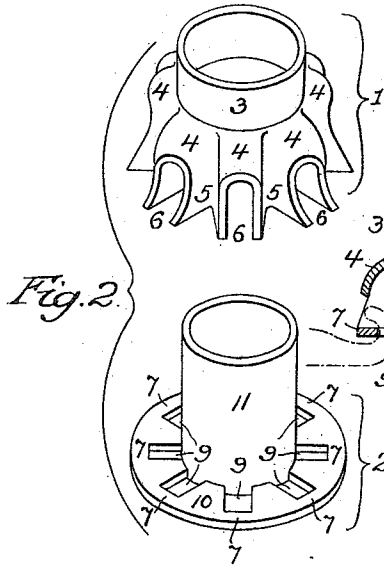
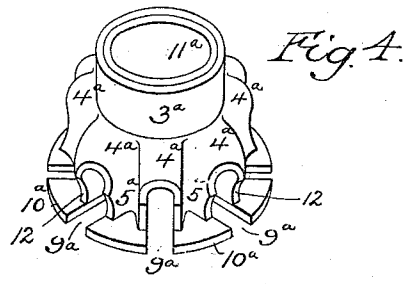
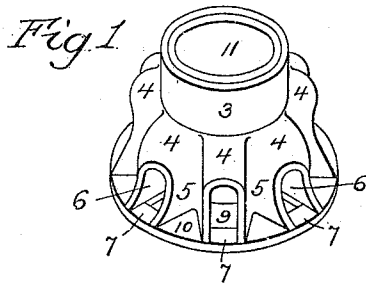
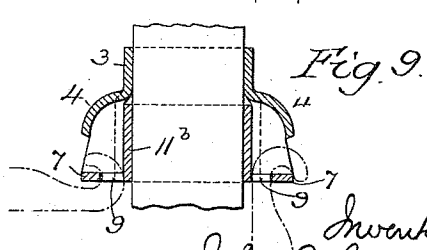
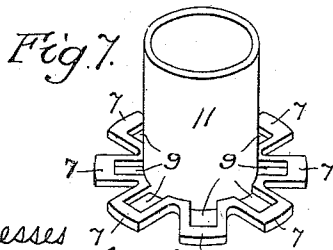
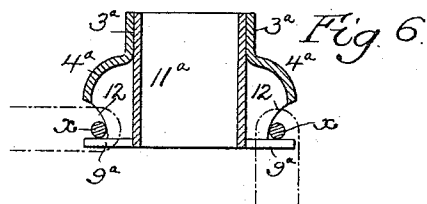
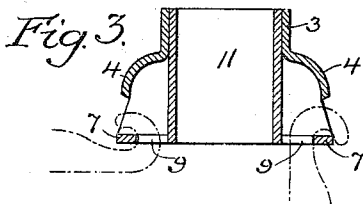
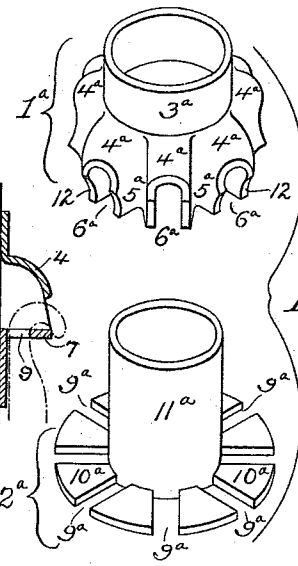
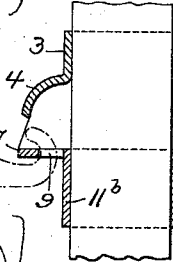


Fig. 8.



Witnesses
 Harry L. Smith
 Hamilton S. Turner

Inventor
 John B. Riehl
 by his attorneys
 Smith & Riehl

UNITED STATES PATENT OFFICE.

JOHN B. RIEHL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO AMERICAN SPECIALTY MANUFACTURING COMPANY, OF DOVER, DELAWARE, A CORPORATION OF DELAWARE.

NOTCH OR RUNNER-HEAD FOR UMBRELLAS AND PARASOLS.

979,561.

Specification of Letters Patent.

Patented Dec. 27, 1910.

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To all whom it may concern:

Be it known that I, JOHN B. RIEHL, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Notches or Runner-Heads for Umbrellas and Parasols, of which the following is a specification.

My invention relates to a notch or runner head (hereinafter, for convenience, termed a "notch") of the type shown in my application for Letters Patent filed September 16, 1908, Serial No. 453,338, my present notch, however, instead of being made in one piece as before, being composed of upper and lower members.

In a notch of the type in which the ribs or stretchers are pivoted directly upon bridges crossing the slots of the notch the lower member is provided with said bridges and in a notch of the type in which a pivot wire is used the lower member supports said wire. Both of the members of my improved notch may be struck up from sheet metal if desired, or this method of production may be adopted only in the upper member of the notch, the use of the two members facilitating, to some extent, the production of said upper member.

In the accompanying drawing—Figure 1 is a perspective view illustrating my invention as applied to a notch of the type in which the ribs or stretchers are hung directly to bridges on the notch; Fig. 2 is a perspective view showing the parts of the notch detached from one another; Fig. 3 is a sectional view of the notch illustrating by dotted lines ribs attached thereto, one of said ribs being in the extended and the other in the folded position; Fig. 4 is a view similar to Fig. 1, but illustrating the application of my invention to a notch intended for use in connection with a pivot wire; Fig. 5 is a perspective view, illustrating, separate from one another, the parts of the notch shown in Fig. 4; Fig. 6 is a sectional view of the notch shown in Fig. 4, with the pivot wire and ribs applied thereto, one of said ribs being shown in the extended and the other in the folded position; Fig. 7 is a perspective view illustrating a modification of my invention, and Figs. 8 and 9 are sectional views of modified forms hereinafter described.

The notch shown in Figs. 1, 2 and 3 comprises an upper member 1 and a lower mem-

ber 2, the upper member having a neck 3 for being secured to the stick of the umbrella or parasol, and this neck having radially projecting hollow ribs 4 with slotted intervening open grooves 5, the outer face of each rib having a slot 6 therein. This member of my improved notch is formed in the same manner as the notch shown in my former application, above referred to, but instead of forming upon the side walls of the ribs 4 bent fingers for bridging the slots 6, said bridges 7 are formed across slots 9 in a ring 10 which constitutes part of the member 2 of the notch, this member also having a neck 11 to be secured to the stick of the umbrella or parasol, as shown in Fig. 3. When the member 2 is employed, this die-pressing of the member 1 of the notch is materially facilitated as compared with the die-pressing of a complete notch of the character shown in my former application, and the character of the blank is also simplified. When the umbrella ribs are pivotally mounted upon the bridges 7 the tops of the hollow ribs of the upper member of the notch, prevent vertical displacement of said umbrella ribs when the latter are folded down against the stick.

In applying my invention to the production of a notch intended for use in connection with a pivot wire, as shown in Figs. 4 5 and 6, the lower member 2^a has open slots 9^a in a ring 10^a, the intervening portions of the latter serving for the support of the pivot wire *w* and rendering unnecessary the formation of slots in the side walls of the ribs 4^a of the upper member 1^a of the notch, curved recesses 12 taking the place of such slots. In a notch of this type also, the use of the lower member facilitates the formation of the upper member by simplifying the blank of which the same is composed and rendering easier the die pressing of said blank as compared with the die pressing of a complete notch of the former type.

The lower members of either of my improved forms of notch may, if desired, be recessed or slotted between the slots 9 or 9^a, as shown for instance in Fig. 7, and instead of having a long neck 11 or 11^a fitting within the neck of the upper member of the notch the lower member of the notch may have a short neck 11^b of the same diameter as the neck of the upper member and extending

downwardly, as shown in Fig. 8, or said short neck may extend upwardly and fit within the upper member of the notch, as shown in Fig. 9, the grooves between the ribs of said upper member of the notch in this case being correspondingly shallower, as shown by dotted lines, or, in some cases, the lower member of a notch of the type shown in Fig. 1 may alone be used. When the notch is used as a runner head, it is inverted and secured to a tube whereby it is guided in its movements on the stick, or when the member 2 has a long central neck, this may constitute the guiding tube.

I claim:—

1. A notch or runner head comprising one member having projecting hollow ribs with slotted outer faces and intervening grooves, and another member cooperating therewith and consisting of a slotted ring with central neck.

2. A notch or runner head comprising one member having projecting hollow ribs with slotted outer faces and intervening grooves, and another member cooperating therewith and consisting of a central neck with projecting ring having therein slots bridged at their outer ends.

3. A notch or runner head comprising one member with a central neck having hollow projecting ribs with slotted outer faces and intervening grooves, and another member also having a central neck and a projecting slotted ring, said central neck being of the same diameter as the neck of the first member.

4. A notch or runner head comprising one member with central neck having hollow projecting ribs with slotted outer faces and

intervening grooves, and another member also having a central neck and a projecting slotted ring, said central neck fitting within the first member and being of the same diameter as the neck of the latter.

5. A notch or runner head comprising one member with central neck having projecting hollow ribs with slotted outer faces and intervening grooves, and another member also comprising a central neck with projecting ring having therein slots bridged at their outer ends, the central necks of both members being of the same diameter.

6. A notch or runner head comprising one member with central neck having projecting hollow ribs with slotted outer faces and intervening grooves, and another member also comprising a central neck with projecting ring having therein slots bridged at their outer ends, the central neck of the second member being contained within the first member, and being of the same diameter as the central neck of the latter.

7. A notch or runner head consisting of a central neck with projecting ring having therein slots bridged at their outer ends to provide pivotal supports for the ribs or stretchers, in combination with another member having portions for engaging the pivotal ends of said ribs or stretchers and preventing displacement of the same.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JOHN B. RIEHL.

Witnesses:

HAMILTON D. TURNER,
KATE A. BEADLE.