

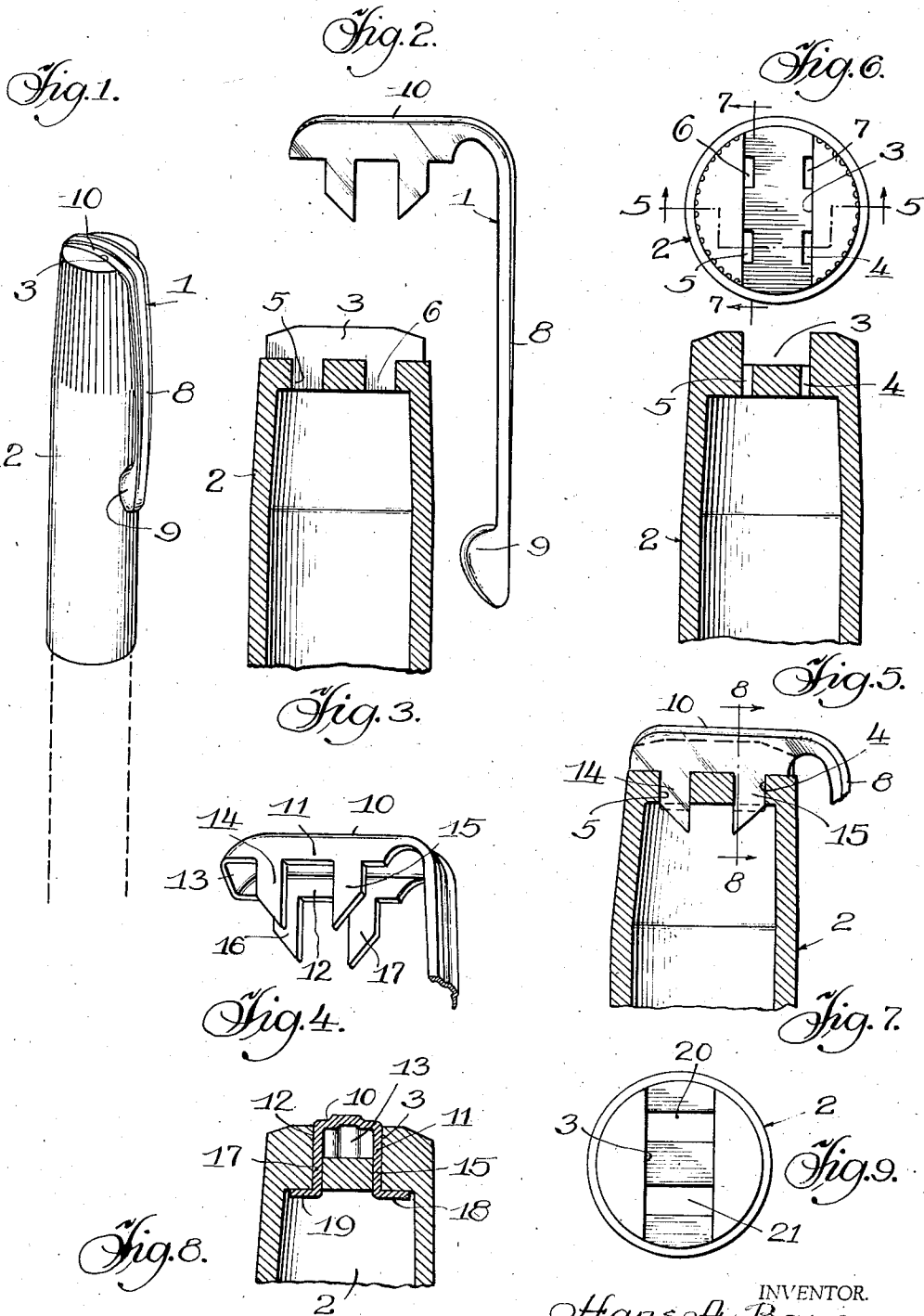
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CLIP AND CAP FOR MECHANICAL PENCILS, FOUNTAIN PENS, AND THE LIKE

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CLIP AND CAP FOR MECHANICAL PENCILS,
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7 Claims. (Cl. 24—11)

This invention relates to a combined clip and cap for mechanical pencil, fountain pen and the like, and more particularly to the clip construction and the attachment of the same to the cap. I have described this invention as applied to a cap, and wish it understood that the same is not limited to the attachment of the clip to a cap but the clip may be also attached to a mechanical pencil not having a cap if desired.

Among the objects of this invention is to provide a novel construction of clip and attachment of the same to a cap for mechanical pencil, fountain pen or the like, or to a mechanical pencil barrel not having a cap if desired.

A further object is to provide a clip and means for attaching the same to a pencil, pen or the like to produce a construction of greater strength, convenience in use, economy and ease of manufacture, pleasing appearance and durability.

Other objects, advantages and capabilities will later more fully appear.

My invention further resides in the combination, construction and arrangement of parts illustrated in the accompanying drawing, and while I have shown therein a preferred embodiment I wish it understood that the same is susceptible of modification and change without departing from the spirit of my invention.

In the drawing:

Fig. 1 is a perspective view of my improved clip and cap showing in dotted lines a portion of a mechanical pencil, fountain pen or the like to which the same is applied.

Fig. 2 is a side elevation of my improved clip.

Fig. 3 is a vertical longitudinal fragmentary section through the cap, mechanical pencil barrel or the like prior to fastening of the clip thereto.

Fig. 4 is a fragmentary perspective view of the upper end of the clip.

Fig. 5 is a fragmentary vertical longitudinal section of a portion of the cap, barrel or the like of a mechanical pencil, fountain pen or the like, showing the upper portion prior to application of the clip thereto and taken on the line 5—5 of Fig. 6.

Fig. 6 is a top plan view of Fig. 5.

Fig. 7 is a fragmentary vertical longitudinal section on the line 7—7 of Fig. 6, and showing the upper end of the clip in position ready to be finally fastened on the cap, barrel or the like.

Fig. 8 is a fragmentary vertical longitudinal section on the line 8—8 of Fig. 7, but showing the lower end of the prongs as being bent into final position.

Fig. 9 is a top plan view of a cap, barrel or the like having a different shape of openings to receive the clip prongs.

Referring in detail to the drawing, my improved clip 1 is attached to a cap 2 of a mechanical pencil, fountain pen or the like, it being understood, however, that instead of being attached to a cap of the form indicated at 2, the clip could be fastened to the end of a mechanical pencil barrel or the like if desired, without being attached to a removable cap. The cap 2 is formed at its upper edge with a transversely extending groove 3, which cap is formed at the bottom of groove 3 and through the top wall of the cap with four openings 4, 5, 6 and 7, arranged in pairs adjacent each of the side walls of groove 3 and positioned as shown in Fig. 6.

The clip 1 is formed with the depending resilient arm 8 formed at its lower end with the head 9 so constructed as to readily slide over the goods of the pocket or the like when the pen or pencil is applied thereto. Formed at the upper end of arm 8 of the clip is a fastening head 10 provided on each of its side edges with downwardly extending flanges 11 and 12, which flanges at the free end of the head merge into the end flange 13. Flange 11 is formed with a pair of downwardly extending prongs 14 and 15, and flange 12 is formed with similar prongs 16 and 17.

In applying the clip to the cap 2, barrel or the like, the flanges 11, 12, which are slightly wider than groove 3 in order to give a resilient grip therein, are pushed downwardly into groove 3, the prongs 14, 15, 16 and 17 at the same time entering grooves 5, 6, 7 and 4 so that when the flanges 11 and 12 are pushed downwardly under some pressure into contact with the bottom wall of groove 3, the prongs will have passed through said openings and be in the position shown in Fig. 7. The ends of the prongs are then bent laterally into contact with the lower face of the top wall of the cap, barrel or the like as shown at 18 and 19 in Fig. 8. This firmly secures the clip head into position on the cap, barrel or the like.

If desired, instead of using four holes or openings 4, 5, 6 and 7, a pair of transversely extending openings 20 and 21 may be formed in the top wall of the cap, barrel or the like, and the prongs inserted through said laterally extending openings with the prong ends bent laterally after the manner described in connection with Fig. 8.

My invention described above provides a resilient clip with a novel attachment of the clip head to the cap, mechanical pencil barrel or the

like, and possessing great strength as well as pleasing appearance and being easy and quick to secure in position.

Having now described my invention, I claim:

1. A clip attachment for writing instruments and the like, comprising a clip head having a pair of parallel side flanges, each of said side flanges having a pair of spaced prongs, a supporting member to which said clip head is attached, said supporting member having an end wall formed on its outer face with a transverse groove of a width to snugly receive said pair of side flanges, said end wall having in the bottom of said groove four openings, one for each of said prongs, said flanges being snugly fitted against the side walls of said groove and the prongs inserted in said openings with the ends of the prongs extending a distance beyond the inner ends of the openings, said prong ends being bent laterally against the inner face of the end wall to firmly secure the clip head to the supporting member.

2. In a clip and cap for mechanical pencils, fountain pens and the like, a cap having an end wall formed with a transverse groove opening outwardly across its exterior face and a plurality of openings in said groove and extending through the end wall, a clip having a head formed with a plurality of prongs, each of said prongs extending axially of the cap through and beyond one of said openings, the protruding end portion of each prong extending laterally along the inner face of the end wall.

3. In a combined clip and support for mechanical pencils, fountain pens and the like, a supporting member having on its upper end a transverse groove opening outwardly across said end and a plurality of openings, a clip comprising a resilient arm and a head, the head having a plurality of prongs extending axially of the cap, each of which prongs extends into one of said openings and the head positioned in the groove, one of said prongs extending laterally in one direction underneath the under face of said upper end, and another of said prongs extending laterally in the opposite direction underneath said face for securely holding the prongs and head against removal from the supporting member.

4. A clip attachment for writing instruments and the like, comprising a clip having a resilient arm and a head formed with prongs, said head extending transversely of the arm, a sup-

porting member having formed in its end wall a transverse groove opening outwardly across its exterior face and a plurality of openings, said head being snugly fitted into the groove with its outer face exposed, and the prongs extending into the openings in an axial direction relative to the supporting member.

5. In combination a clip for mechanical pencils, fountain pens and the like, comprising a resilient arm and a head, the head extending at an angle of approximately ninety degrees to the arm, said head having a pair of side flanges and an end flange, each of said side flanges having an attaching prong thereon, and a supporting member having across its exterior face an outwardly opening groove, said side flanges being in resiliently gripping engagement with the side walls of the groove.

6. A clip attachment for mechanical pencils, fountain pens and the like, comprising a resilient arm and a head, the head extending at an angle of approximately ninety degrees to the arm, said head having a pair of side flanges and an end flange, each of said side flanges having an attaching prong thereon, and a supporting member having a groove opening outwardly across its exterior face to receive the head and openings to receive the prongs, said side flanges being resiliently gripped between the side walls of said groove.

7. In a clip and cap for mechanical pencils, fountain pens and the like, a cap having an end wall and side walls, the end wall having a transverse groove and a plurality of openings extending into the bottom of the groove and passing through the end wall, a clip having a resilient arm formed at one end with a guiding nose and at the other end with an attaching head extending approximately at ninety degrees to the arm, said attaching head having on each of its side edges a depending flange, and on its free end an end flange, each of the side flanges extending at an angle of approximately ninety degrees to the attaching head, said side flanges each having a prong extending into one of said openings, the free end of each of said prongs extending laterally along part of the inner face of the cap end wall and the said flanges snugly fitting between the side walls of said groove, whereby to firmly secure the clip to the end of the cap.

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