

Feb. 28, 1939.

O. CARLSON

2,149,132

CUFF LINK

Filed June 10, 1935

Fig. 1

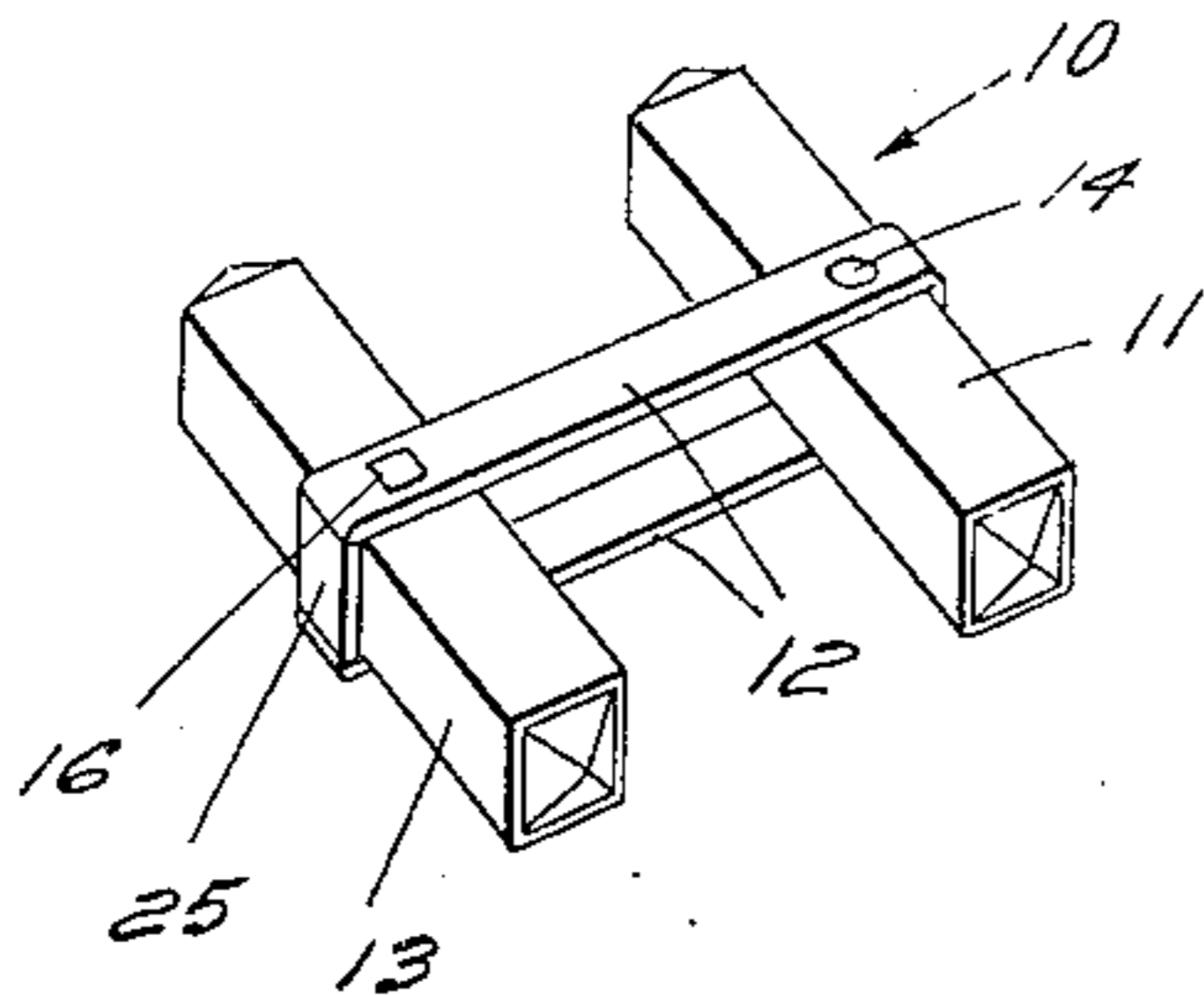


Fig. 2

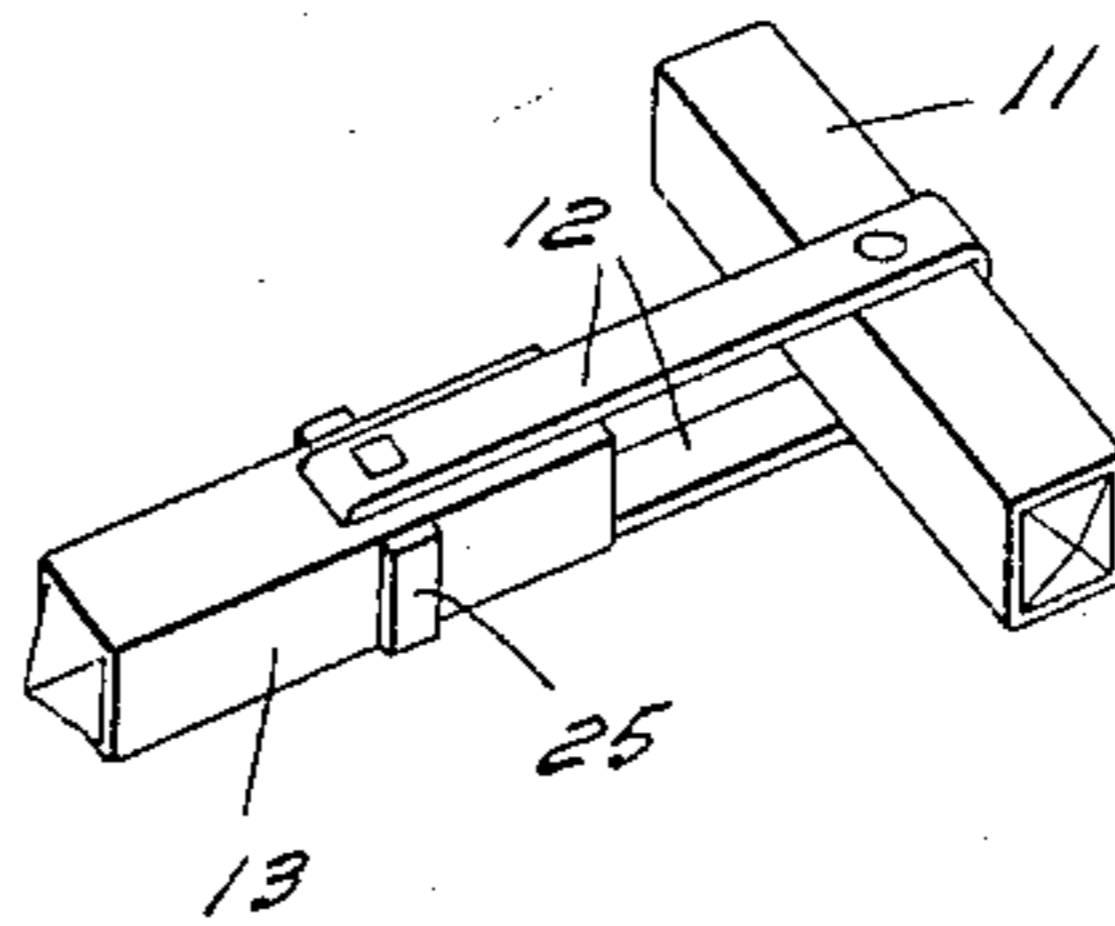


Fig. 3

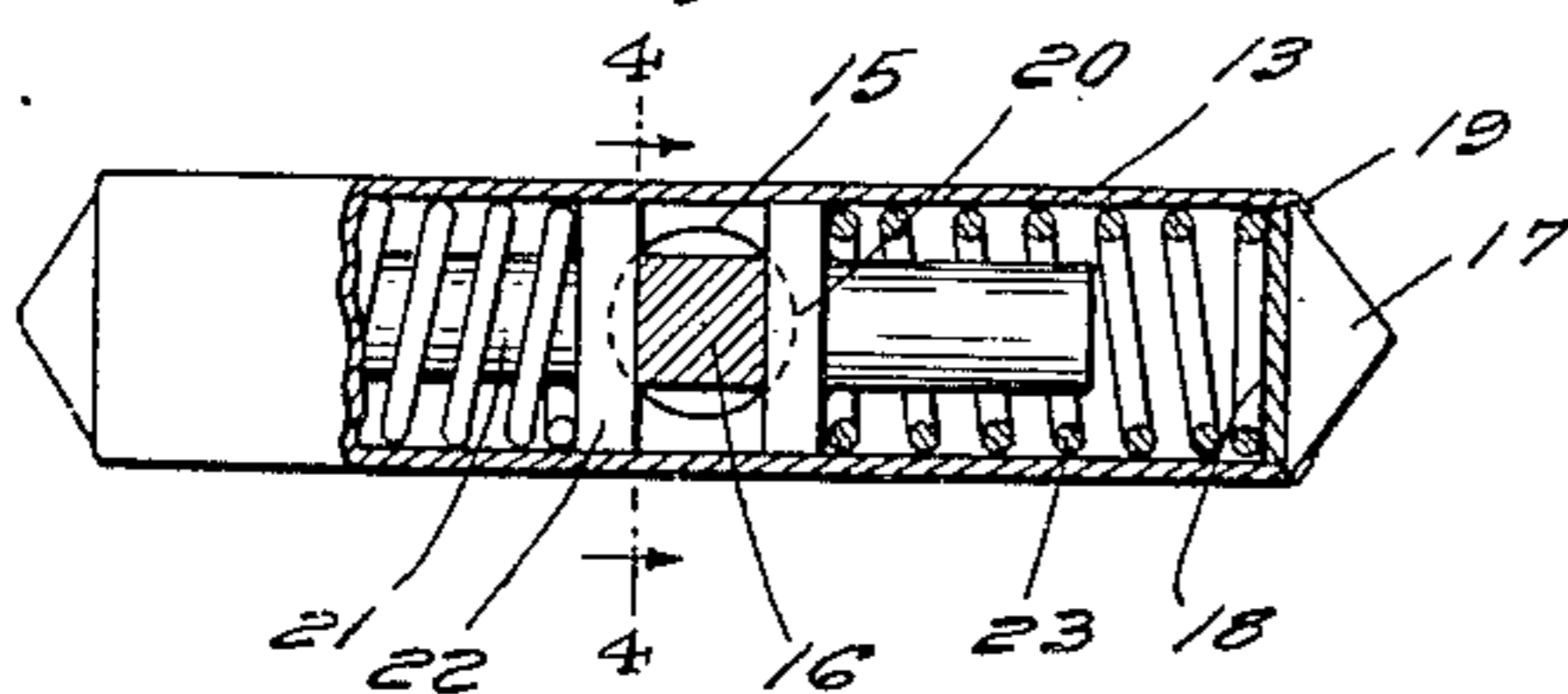


Fig. 4

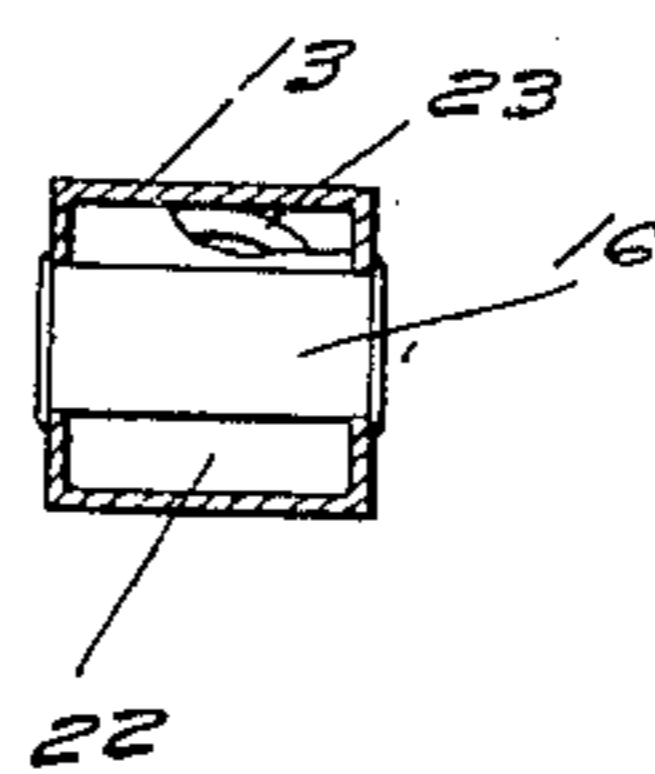


Fig. 5

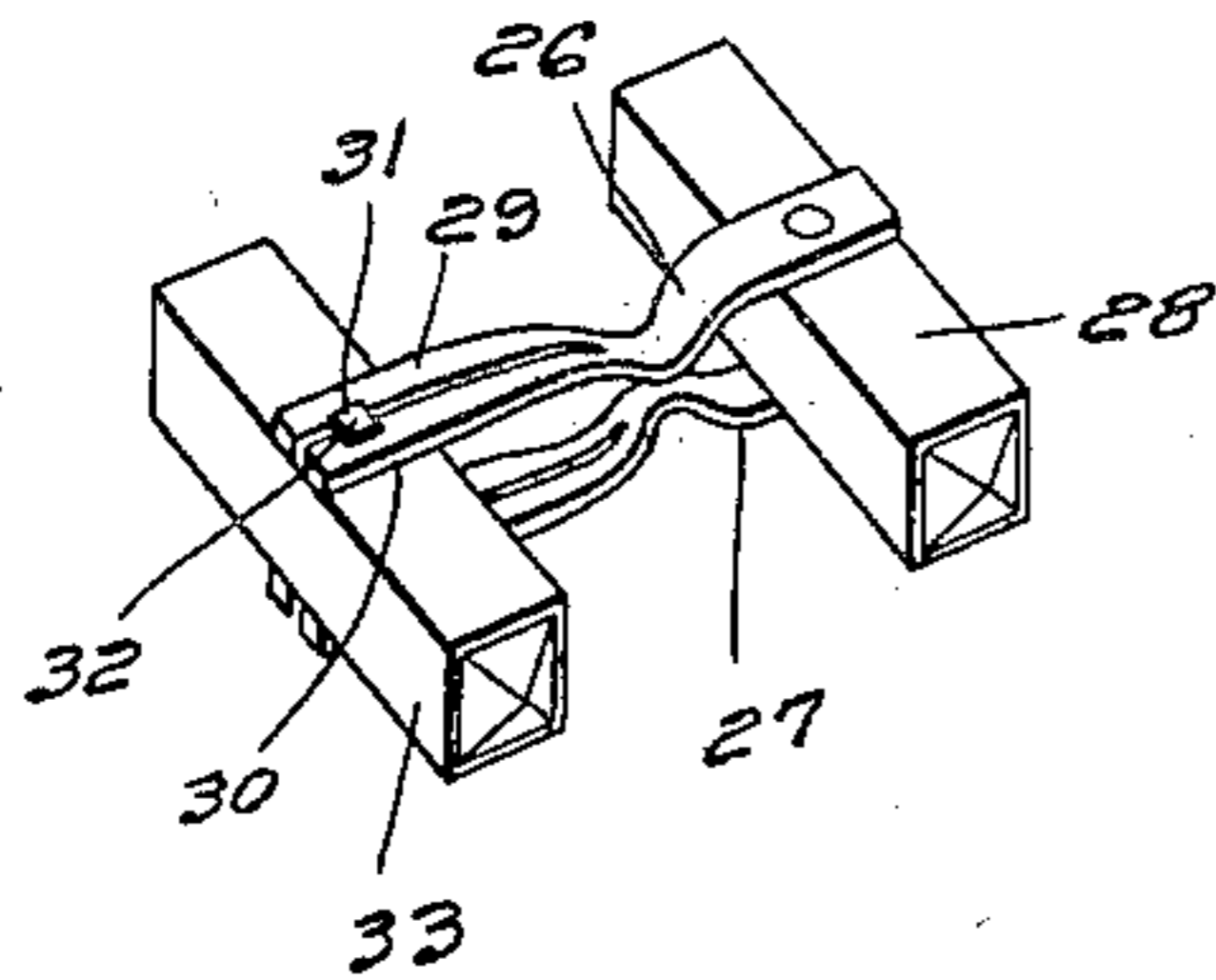


Fig. 6

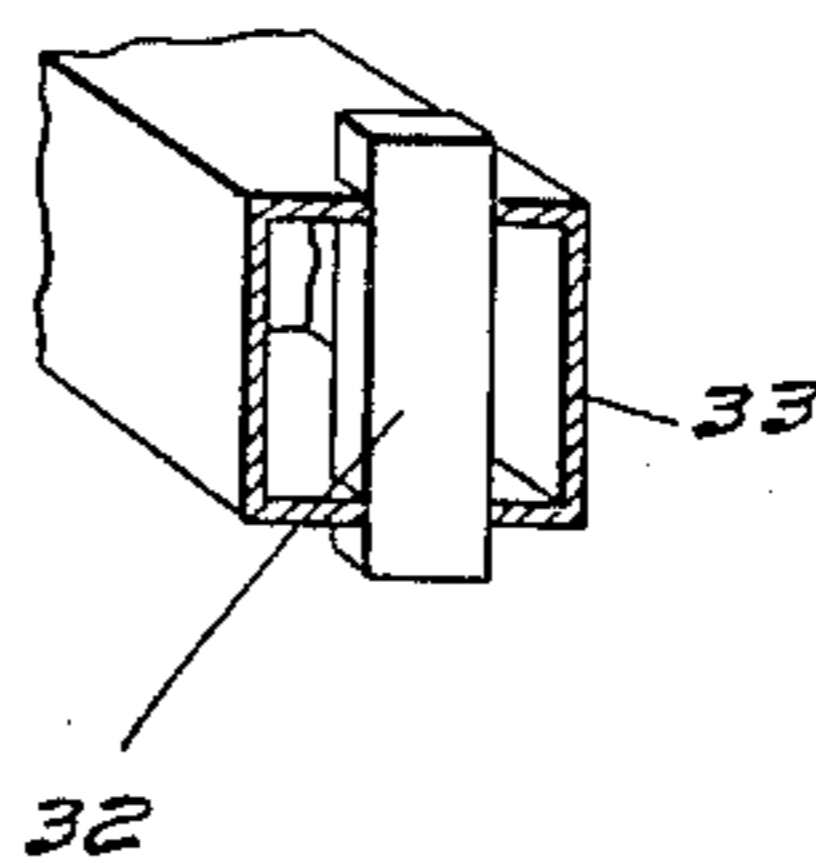


Fig. 7

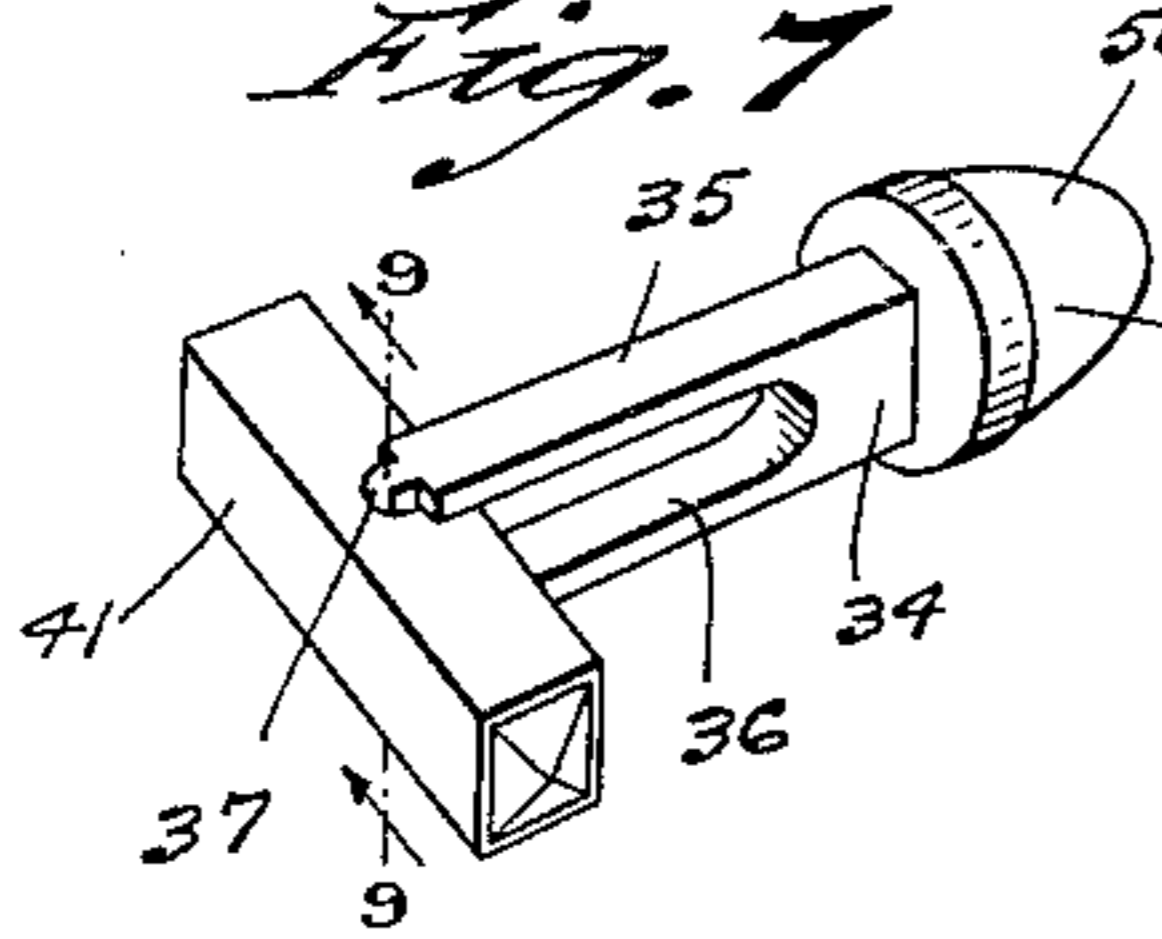


Fig. 8

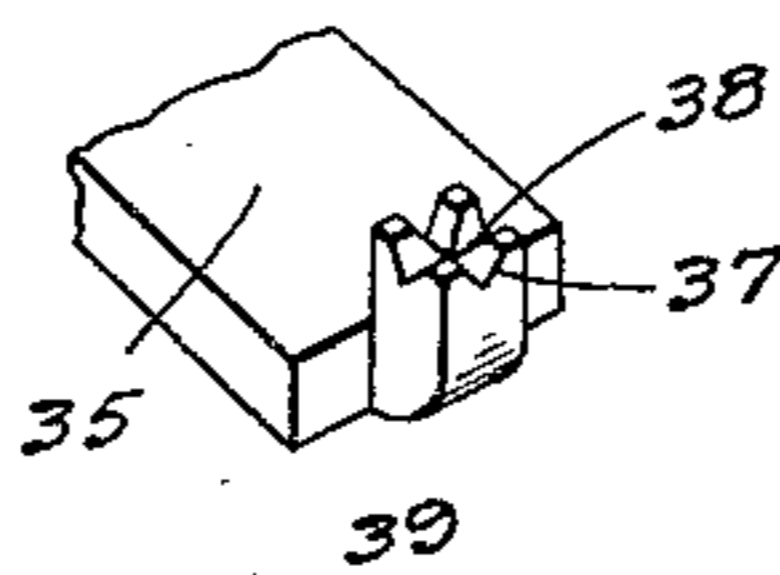


Fig. 9

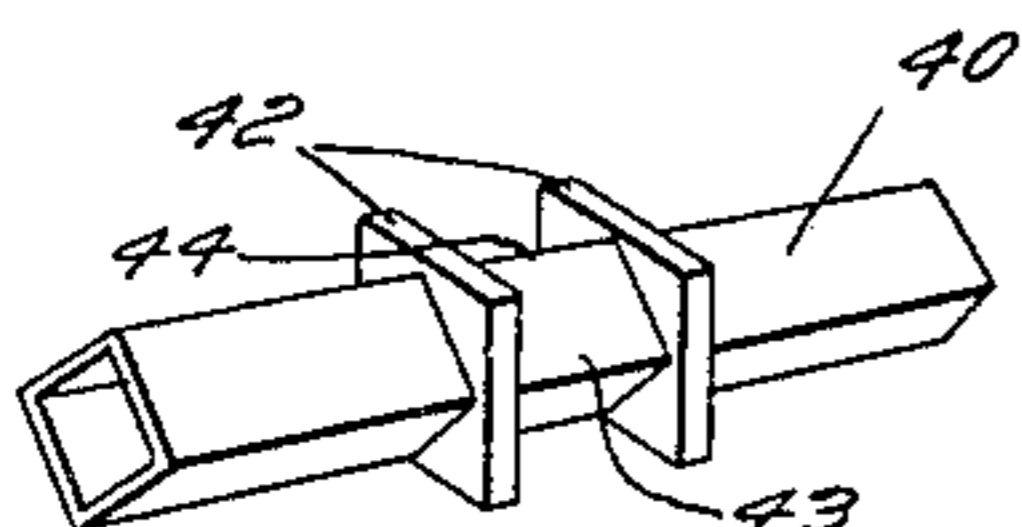
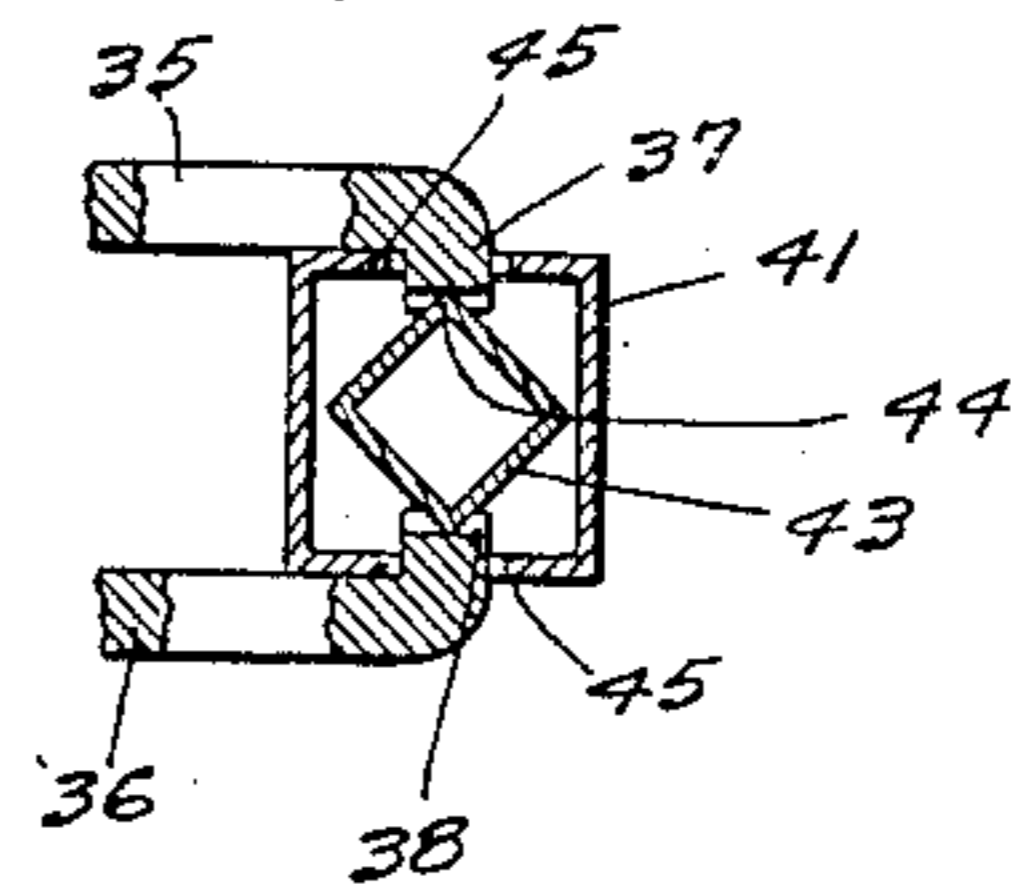


Fig. 10

Fig. 11

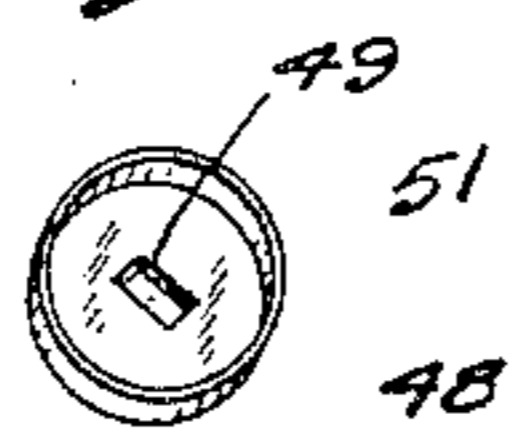
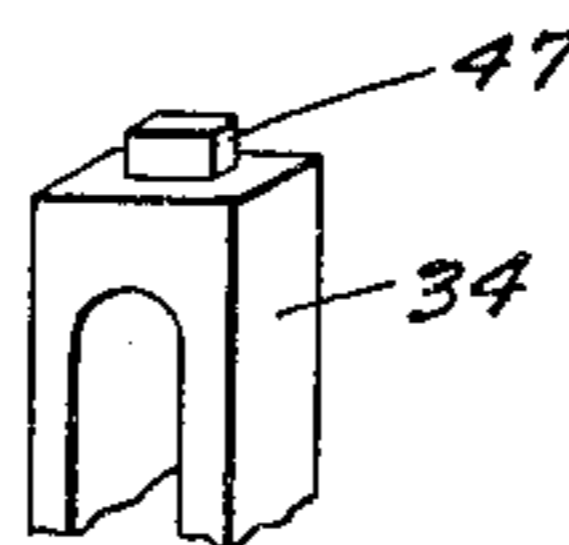


Fig. 12



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UNITED STATES PATENT OFFICE

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CUFF LINK

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mesne assignments, to Dolan & Bullock, a firm
consisting of Arthur S. Dolan and Frederick A.
Bullock, a firm of Rhode Island

Application June 10, 1935, Serial No. 25,723

7 Claims. (Cl. 24-102)

My present invention relates to men's jewelry, and has particular reference to cuff link constructions.

A popular cuff link arrangement includes a central portion and a head which is selectively movable into two positions at right angles to each other. It is the principal object of my invention to improve the construction of this type of cuff link.

The movable head is preferably held in its selected position by spring means; it is a further object of my invention to provide a construction which has a very strong and durable spring mechanism.

It is an additional object of my invention to provide a simplified mounting for an ornamental fixed head at one end of the cuff link central portion.

With the above and other objects and advantageous features in view, my invention consists of a novel arrangement of parts more fully disclosed in the detailed description following, in conjunction with the accompanying drawing, and more specifically defined in the claims appended thereto.

In the drawing,

Fig. 1 is a perspective view of the novel cuff link, the movable head being in one selective position;

Fig. 2 is a view similar to Fig. 1, the movable head being in its alternative selective position;

Fig. 3 is a detail enlarged view of the movable head, partly in section;

Fig. 4 is a section, partly broken away, on the line 4-4 of Fig. 3.

Fig. 5 is a perspective view of a modified link construction;

Fig. 6 is a vertical section through the movable head thereof;

Fig. 7 is a perspective view of a further modified link construction;

Fig. 8 is a perspective detail of one spring end;

Fig. 9 is an enlarged section on the line 9-9 of Fig. 7;

Fig. 10 is a perspective of the movable head cam;

Fig. 11 is a perspective of the ornament retaining finding; and

Fig. 12 is a perspective detail view of the central portion finding.

Referring to the drawing, the novel link 10 has a head 11 fixed between side plates 12, 12, at one end thereof and a head 13 pivotally mounted between the side plates at the other end thereof.

The heads 11, 13 are preferably of hollow construction, the head 11 being riveted to the side

plates by a through pin 14, and the head 13 having openings 15 and being pivoted on a through pin 16 of square cross-section. Each head preferably has an ornament 17 at each end thereof, having a backing plate 18, the edges 19 of the head end being swaged to lock the ornament in place.

Blocks 20 having cylindrical shanks 21 and generally square bases 22 are mounted in each end of the movable head with the bases 22 contiguous to the through pin 16, and a coil spring 23 is seated in each end about the shank 21, one end contacting the plate 18, and the other end engaging the base 22 to press it towards the pin 16. It is thus evident that the movable head may be swung, and as it swings, the blocks 20 will be pressed outwardly by contact with the edges of the pin 16, and will then be seated against the flat sides of the pin 16 by the springs, whereby the movable head is resiliently held in two selective positions perpendicular to each other. If desired, the pin 16 may be made with a circular portion of narrow width seating in the circular opening 15; the plates 12 may be joined by an integral end 24, see Fig. 1, to form a U shaped member, and the head 13, and the head 11 if desired, may have ornamental blocks 25 on two sides thereof to complete the design, as shown in Fig. 1.

The above described construction utilizes spring mechanism which is entirely housed in the movable head; this arrangement depends for its spring tension on the resilience of the coil springs. It may be preferred to use other types of springs, which can be controlled in tension; such forms are disclosed in Figs. 5 to 12 inclusive.

Thus, note Fig. 5, two side spring bars 26, 27 may be provided, a fixed head 28 being secured between the spring bars at one end thereof, the other end of each bar being slotted to provide adjacent spring fingers 29, 30 which have square slots 31 adapted to engage with the exposed ends of a square pin 32 locked in and extending through a movable head 33. As the movable head is turned, the spring fingers spread apart and then move back to again engage the ends of the pin 32, thus selectively locking the movable head parallel to the spring bars or at right angles thereto. The tension of the spring fingers may be controlled by the extent of the slot therebetween.

If desired, the spring mechanism may be made from a block metal, as indicated at 34 in Fig. 7, the block having two spaced arms 35, 36 terminating in inwardly directed fingers 37 which as shown in Fig. 8 have two V grooves 38, 39 at right angles to each other. A cam block 40 of suitable form, such as for example illustrated in Fig. 10, may be

positioned in the movable head 41, and has spaced cross blocks 42 to engage the interior of the head 41 and hold the cam block against rotation, the cam 43 being between the cross blocks and being square in section to provide cam edges 44. The cam block is preferably of hollow stock to ensure lightness.

As shown in Fig. 9, the fingers 37 enter into suitable openings 45 in the movable head, and the grooves 38 contact the cam edges 44; when the movable head is turned, the cam edges 44 force the fingers outwardly until the grooves 39 are free, when the fingers snap inwardly to removably lock the movable head in its other position with the grooves 39 engaging the cam edges 44. The length of the arms control the intensity of spring action.

A fixed head 46 is mounted on the solid end of the block 34; the fixed head may be of any type, and soldered, riveted, or otherwise secured to the lock end. A preferred construction includes forming the block end with an upstanding lug 47, see Fig. 12, on which an ornament support cup 48, preferably of stamped sheet metal, having an opening 49 to receive the lug 47 may be mounted, the end of the lug being riveted down to lock the cup to the block end. A stone or other ornament 50 may then be seated in the cup, and retained in place by swaging or rolling the rim 51 therearound.

While I have described specific constructions of cuff links and of spring mechanism therefor, it is obvious that changes in the shape and appearance of the parts, and in their size and material, may be made to suit the requirements of different cuff link designs, without departing from the spirit and the scope of the invention as defined in the appended claims.

I claim:

1. In a cuff link, a body comprising spaced bars, a head positioned adjacent one end of said body, a hollow head pivotally mounted between said bars at the other end of said body, said hollow head having aligned openings in the sides thereof to receive the ends of said bars, and cam means in said head positioned in alignment with said pivot openings and engaging the ends of said bars to releasably lock said head in selected positions relative to said bars.

2. In a cuff link, a body having spaced bars, a head positioned adjacent one end of said body, a movable head positioned at the other end of said body and having openings at the sides thereof, said bars having their ends seated in said openings, said ends having cross grooves, and a cam block in said head having cam edges adapted to selectively seat in said cross grooves.

3. In a cuff link, a body having spaced resilient bar members provided with pivot portions at one end of said body, a head secured to said body at the other end thereof, a movable head member pivotally mounted on said pivot portions for swinging movement between said bar members, and cooperating elements on said bar members and said movable head member comprising cruciform grooves and cooperating cam edge means selectively engageable upon swinging movement

of said head member relative to said bar members to releasably retain said head member in selected position relative to said bar members.

4. In a cuff link, a body having spaced resilient bar members provided with pivot portions at one end of the body which extend towards each other, a head secured to the other end of the body, a movable head member pivotally mounted on said pivot portions for swinging movement between said bar members, and cooperating elements on said bar members and said movable head member comprising recess means and cooperating cam edge means selectively engageable upon swinging movement of said head member relative to said bar members to move said bar members apart against their resilience and then permit return movement of said bar members to releasably retain said head member in selected position relative to said bar members.

5. In a cuff link, a body having spaced resilient bar members provided with pivot elements at one end of the body, a head member secured to the other end of the body, a hollow head member having aligned wall openings for receiving said pivot elements and pivotally mounted between the bar members on said pivot elements for swinging movement, cam element means positioned within said hollow head member in juxtaposition to said pivot openings and cooperating means on the pivot elements selectively engageable with said cam element means upon swinging movement of said hollow head member to releasably retain said hollow head member in selected position relative to said bar members.

6. In a cuff link, a body having spaced resilient bar members provided with pivot portions at one end of said body, a head secured to said body at the other end thereof, a movable head member pivotally mounted on said pivot portions for swinging movement between said bar members, and cooperating elements on said bar members and said movable head member comprising cruciform grooves on the bar members and cooperating cam edge means on the head member selectively engageable upon swinging movement of said head member relative to said bar members to releasably retain said head member in selected position relative to said bar members.

7. In a cuff link, a body having spaced resilient bar members provided with pivot portions at one end of the body which extend towards each other, a head secured to the other end of the body, a movable head member pivotally mounted on said pivot portions for swinging movement between said bar members, and cooperating elements on said bar members and said movable head member comprising recess means on the bar members and cooperating cam edge means on the head member selectively engageable upon swinging movement of said head member relative to said bar members to move said bar members apart against their resilience and then permit return movement of said bar members to releasably retain said head member in selected position relative to said bar members.

OSCAR CARLSON.