

Feb. 11, 1930.

M. A. GILL

1,746,890

MANACLE

Filed May 8, 1928

FIG. 1

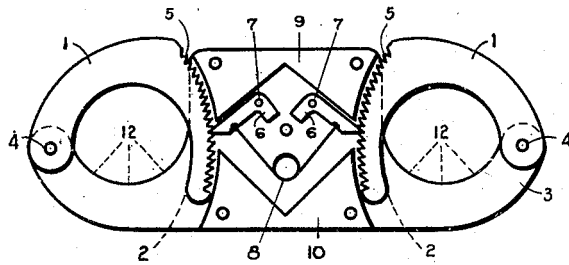


FIG. 2

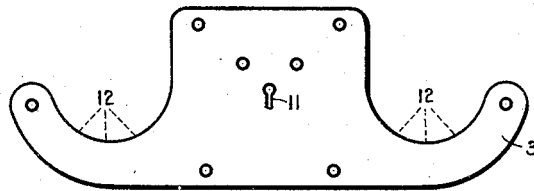
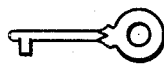


FIG. 3



*Merle Avery Gill*  
INVENTOR.

## UNITED STATES PATENT OFFICE

MERLE AVERY GILL, OF KANSAS CITY, MISSOURI

## MANACLE

Application filed May 8, 1928. Serial No. 276,071.

One object of the present invention is to provide a manacle which may be conveniently carried and handled and which embodies two mating plates having spaced arms at opposite ends, the plates being spaced apart by spaced blocks which form a chamber within the manacle and in which chamber are mounted two spring actuated pawls adapted to project normally outwardly between the spaced blocks into the space between the respective spaced arms to coact with locking levers pivotally mounted at the outer ends of said arms to operate between the respective spaced arms, one of said blocks forming stops to limit said outward movement of said pawls and against which stops the pawls bear and relieve the pawls of strains in the event of an outward strain upon the locking levers, and the other of said blocks forming stops to be engaged by the pawls to limit inward movement of the pawls when the latter are shifted from coacting locking relation with the locking levers.

Another object of the invention resides in the provision of a manacle embodying among other characteristics a body portion having spaced arms at opposite ends and in which body portion there is included spaced blocks forming a chamber in which are pivotally mounted pawls projected normally outwardly from the chamber under the influence of a single floating spring located in said chamber and engaging said pawls to maintain the pawls normally in the path of movement of locking levers pivotally mounted in the outer ends of said spaced arms for operation between the respective spaced arms and for coaction with the pawls to effect an automatic locking connection between the levers and pawls, one of said blocks limiting movement of the pawls in their outward movement and the other block limiting movement of the pawls in the opposite direction.

With these and other objects in view, the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and set forth in the claims hereto appended, it being understood that various changes in the form, propor-

tion, and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit of the invention or sacrificing any of the advantages thereof. The invention is illustrated in the accompanying drawing in which Figure 1 is a front view of the manacles with one side plate removed showing the locking device with the locking levers in the locked position. Figure 2 shows the removed side plate with the rivet holes, pivot pin holes, and key hole punched therein. Figure 3 shows the type of key used for unlocking the levers of the manacles.

In Figure 1 the two locking levers 1 1, are adapted to be revolved in a complete circle, simultaneously or independently of each other in the direction of the dotted lines 2 2, in between the two supporting side plates 3 3, illustrated in Figures 1 and 2. The said locking levers are semicircular shaped and revolve on the pivot pins 4 4, and are provided with a suitable number of ratchet teeth 5 5, in the outside circle of their free ends that are adapted to operate in conjunction with the latching pawls 6 6, said pawls operating on the pivot pins 7 7, positioned in between said supporting side plates. The said latching pawls are normally operated by the spring 8, said spring, as shown, having a complete round-turn in the center of the spring to make it more pliable. The spring 8 is of common form and has its free ends connected to the pawls 6, 6 in any common manner. The spring is further secured in place after the manacles are assembled, by virtue of the fact that the side plates prevent the spring from moving from one side to the other. Any suitable type of common spring may be employed for cooperation with the pawls 6, 6 to effect the necessary functions herein described for the said latching pawls.

A suitable shaped block 9, is provided to act as an upper spacer block and to prevent the said pawls from being pressed upward too far when the said locking levers are in the unlocked position, said block also preventing the pawls from being tampered with from the top of the manacles. Another suitable shaped block 10, is provided to act as a lower

spacer block and to prevent the latching pawls from being tampered with from the bottom of the manacles. The slot 11, cut thru the supporting side plate 3, illustrated in Figure 2, is provided for the entrance of the key, illustrated in Figure 3, for unlocking said levers. The key, when it is turned to the right or left, catches under the inside ends of the pawls 6 6, and draws the outer ends or teeth of said pawls from out of the ratchet teeth 5 5, in the locking levers 1 1, thereby unlocking said levers. The semicircular arms on the side plates 3 3, as the dotted lines 12 12, in Figures 1 and 2 show, are formed in the general shape of the wrists, thumbs, fingers, ankles, or other parts which these manacles are adapted to be used on.

I claim:

1. In manacles, a pair of mating plates having spaced arms at opposite ends, spaced blocks arranged between the plates, a pair of latching pawls pivotally mounted within the plates between said blocks, a spring having its opposite ends bearing against the pawls for normally throwing the pawls outwardly to project the outer ends of the pawls into the space between the respective spaced arms, and locking levers pivotally mounted on the outer ends of said spaced arms and freely revoluble between the said arms and the mating plates into coacting locking relation with said latching pawls, the pawls having inner end portions engageable by a key adapted to operate the device for moving the pawls selectively to release said locking levers, one of said blocks forming stops to limit the said outward movement of said pawls and the other of said blocks forming stops to be engaged by the pawls to limit inward movement of the pawls when the latter are shifted from coacting locking relation with the locking levers.

2. In manacles, a pair of mating plates having spaced arms at opposite ends, spaced blocks arranged between the plates, a pair of latching pawls pivotally mounted within the plates between said spaced blocks, means for swinging the latching pawls to normally force their outer ends outwardly between said blocks and into the space between the respective arms, and locking levers pivotally mounted on the outer ends of said spaced arms and freely revoluble between the said arms and the mating plates into coacting locking relation with said latching pawls, the pawls having inner end portions engageable by a key adapted to operate the device for moving the pawls to release said locking levers, one of said blocks being recessed to form stops for engagement by said pawls to limit the aforesaid outward movement of the latter and the other of said blocks being recessed to form stops engageable by the pawls to limit the said inward movement of

the pawls when the latter are shifted from coacting relation with the levers.

3. A device of the character described comprising a pair of mating plates including body portions and integral arm portions forming seats for wrists or the like, spaced blocks spacing the body portions of the plates to form the body of the device and space the arms of one plate from the arms of the other plate to form pairs of spaced arms, said spaced blocks forming a chamber in the body, latching pawls pivotally mounted on the body in said chamber and each pawl having a tooth, means for yieldably projecting the teeth of the pawls into the space between the respective spaced arms, a lever pivotally mounted on the outer end of each pair of arms and freely revoluble between the arms and having teeth for coaction with the said toothed pawls to effect a locking connection between the respective pawls and the respective levers, said pawls being stopped from movement in one direction by one of the aforesaid blocks and said pawls being stopped from movement in the opposite direction by the other of said blocks.

In testimony whereof I affix my signature.  
**MERLE AVERY GILL.**