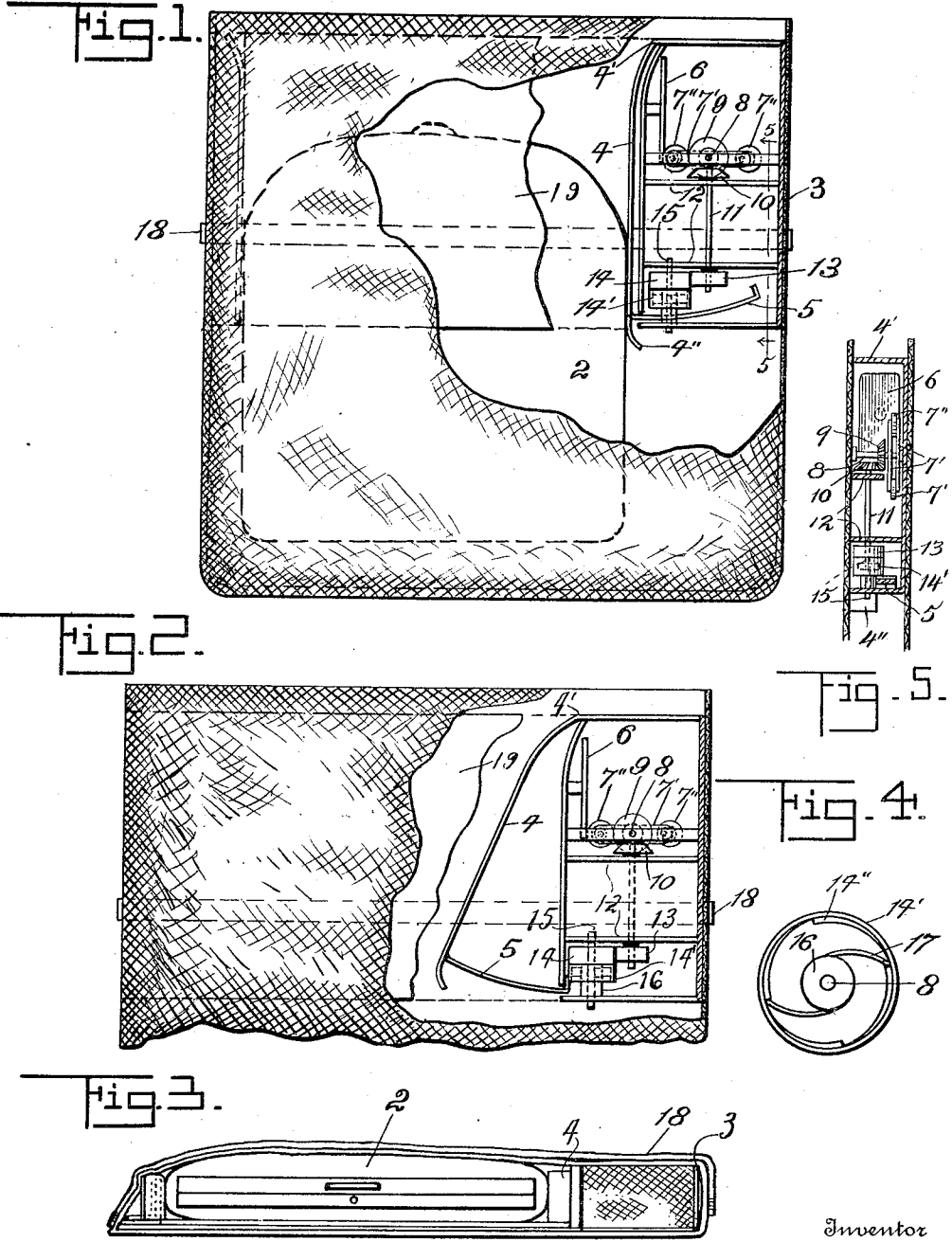


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POCKET ALARM.

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# UNITED STATES PATENT OFFICE.

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## POCKET-ALARM.

1,121,496.

Specification of Letters Patent.

Patented Dec. 15, 1914.

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*To all whom it may concern:*

Be it known that I, FINGAL GUSTAFSON, a subject of the King of Sweden, residing at Cloquet, in the county of Carlton and State of Minnesota, have invented certain new and useful Improvements in Pocket-Alarms, of which the following is a specification.

The present invention appertains to alarm devices, and particularly to that type adapted for disposition in a garment pocket and with which an object in said pocket cooperates in such a manner that an alarm is sounded upon the removal of the object therefrom.

More specifically the object in view is the provision of an alarm sounding device suitable for connection within a pocket and carrying an operating member normally placed under tension by an object, such as a pocketbook, against which it impinges, whereby unauthorized removal of the pocketbook from the pocket will release the operating member and actuate the alarm that the removal may be thereby detected.

With the above and other objects in view, this invention consists in the construction, combination and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a vertical sectional view showing the application of my alarm device within a pocket and its cooperation with a purse also in said pocket; Fig. 2 is a fragmentary sectional view similar to Fig. 1 and showing the position of the alarm upon removal of the object and actuation of the operating member for said alarm. Fig. 3 is a top plan view; and Fig. 4 is a detail bottom plan of one of the parts for operating the hammer member of the alarm device. Fig. 5 is a vertical section taken on the planes indicated by line 5—5 of Fig. 1.

Throughout the following detail description, and on the several figures of the drawings, similar parts are referred to by like reference characters.

It is to be understood in premising the description of this invention that the alarm device constituting the same may be disposed in any pocket of a garment and it is

still further comprehended that the said device may be connected with an independent pocket member that may be suitably inserted in a garment pocket and fastened therein as a lining member for said pocket.

With the foregoing in view the numeral 1 designates a garment pocket and 2 an object disposed therein such as a purse or pocketbook. Within the pocket 1 and preferably at an upper corner of the same is suitably secured the alarm device forming the embodiment of my invention and which device comprises a casing 3 of any suitable form and size within which is housed the alarm mechanism to be more fully described hereinafter. Connected to the casing exteriorly of the same and preferably at its upper corner 4' is provided an operating member 4 in the form of a spring which extends downwardly substantially the length of the casing 3 and has at its lower terminal an arm 4'' preferably bent laterally for a purpose which will be understood as this description proceeds. The spring member 4 is adapted to actuate the alarm mechanism within the casing 3 and for this purpose is provided a laterally extending arm or extension 5 projecting into said casing near its lower extremity as will be most clearly seen by reference to Fig. 1 of the drawing. The operating member 4 is normally held in a position for actuation of the alarm mechanism by the object within the pocket 1, or more specifically the purse 2, which cooperates with the same to hold by impingement against the spring member 4 the extension 5 projected into the casing 3. The removal of the purse 2 from the pocket will permit the spring member 4 to quickly move laterally with respect to the casing into a position such as is shown in Fig. 2 such lateral movement withdrawing the arm 5 from the casing and the latter actuating the alarm mechanism in such outward movement. The alarm mechanism consists of a sound producing member, such as a plate 6 secured to the casing 3, preferably at an upper corner of the same, and adapted to impinge on this plate is provided a hammer member rotatably mounted and disposed vertically adjacent the plate 6 upon a horizontal shaft 8 journaled in the sides

of the casing 3. The hammer member may be of any desired form, but as illustrated in the drawing comprises spaced arms 7' mounted centrally on the shaft 8 and carrying at their outer ends disks 7'' which are adapted to strike the plate 6 upon rotation of the shaft 8.

One end of the shaft 8 is formed with a beveled disk or gear member 9 cooperating with a corresponding gear member 10 carried by one end of a vertically disposed shaft 11 journaled at each end in spaced partitions 12 formed in the casing 3. The opposite end of the shaft 11 preferably carries a friction member or roller 13 contacting with a similar friction member 14 mounted upon a vertically disposed shaft 15 located adjacent to the shaft 11, as clearly shown in Figs. 1 and 2 of the drawing. The friction roller member 14 is preferably formed with a hollow extension 14' at its lower end which hollow extension is formed with a plurality of teeth or projections 14'' around its inner walls. Upon the shaft 15 beneath the friction member 14 is loosely mounted another friction roller 16 which extends upwardly within the hollow extension 14' of the member 14 and carries one or more spring arms 17 extending laterally therefrom for cooperation with the projections 14''.

It will be observed that the roller member 16 is disposed directly adjacent the extension 5 on the spring operating member 4 which extension normally contacts with said roller member so as to rotate the same upon movement of the extension outwardly from the casing. This movement of the extension 5 therefore imparts rotation to the member 16 which by reason of the cooperation of the arms 17 with the projections 14'' transmits motion to the member 14 and in turn said member rotates the shafts 11 and 8 so as to thereby revolve the hammer member. Said hammer member in rotating contacts with the plate or sound producing member 6 thereby sounding the alarm when the object or purse 2 is removed from the pocket to permit the spring member 4 to cause actuation of alarm mechanism as just described. The free extremity of the arm 5, as shown in Figs. 1 and 2, is bent upwardly so as to limit the outward movement of said arm by cooperation with the side of the casing 3.

In order that the purse may be held in proper position with respect to the alarm device comprising my invention the pocket 1 is preferably provided with an elastic member 18 secured around one side of the pocket, as shown most clearly in Fig. 3 of the drawing. In order that the pocket may be made suitably rigid for accommodating the structure herein set forth, one side of the casing 3, designated 19, may be extend-

ed along one side of the pocket as shown in the drawings.

Having thus described the invention what is claimed as new is:

1. In a pocket alarm, the combination with a casing adapted to be fitted in a pocket, an alarm mechanism in the casing, a spring carried by the casing and disposed externally thereof within the pocket, and means adapted to be actuated by expanding movement of the spring for operating the alarm mechanism, the spring being disposed for being engaged by an article in the pocket for maintaining the spring compressed during the presence of the article in the pocket.

2. In a pocket alarm, the combination with a casing adapted to be fitted in a pocket, an alarm mechanism in the casing, a spring carried by the casing and disposed externally thereof within the pocket, means adapted to be actuated by expanding movement of the spring for operating the alarm mechanism, the spring being disposed for being engaged by an article in the pocket for maintaining the spring compressed during the presence of the article in the pocket, and means engaging the casing and article engaged portions of the pocket for resiliently retaining the article and casing in their given relative positions.

3. In a pocket alarm, the combination with a casing adapted to be fitted in a pocket, an alarm mechanism in the casing, a spring carried by the casing and disposed externally thereof within the pocket, means adapted to be actuated by expanding movement of the spring for operating the alarm mechanism, the spring being disposed for being engaged by an article in the pocket for maintaining the spring compressed during the presence of the article in the pocket, and an elastic band surrounding the contour for maintaining the article and casing in their respective relative positions.

4. In a device of the class described, the combination of a casing, a sound plate therein, a rotatable hammer member adapted to impinge against said plate, a shaft on which said hammer member is mounted, a spring actuating member secured to the outside of the casing and having an arm projecting thereinto, a friction roller disposed in said casing and having rolling contact with the arm of the spring actuating member, a shaft for transmitting motion to the first mentioned shaft, and a roller member interposed between the last mentioned shaft and the other roller member, and clutch means carried by the first mentioned roller member and engaging the second mentioned roller member whereby to transmit motion imparted by the arm aforesaid to the hammer member upon movement of said arm in one direction and permitting free movement of

the arm in the opposite direction without actuation of said hammer.

5. In a pocket alarm the combination with a casing adapted to be disposed in a pocket, of an alarm mechanism in the casing, a spring connected to the upper portion of the casing and extending longitudinally thereof substantially to the lower end of the casing, an arm extending laterally of and fixed to the spring, the casing being formed with an aperture through which said arm

extends, the arm being disposed to travel in a path for engaging and actuating the alarm mechanism during longitudinal movement in one direction.

In testimony whereof I affix my signature in presence of two witnesses.

FINGAL GUSTAFSON.

Witnesses:

V. J. MICHAELSON,  
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."