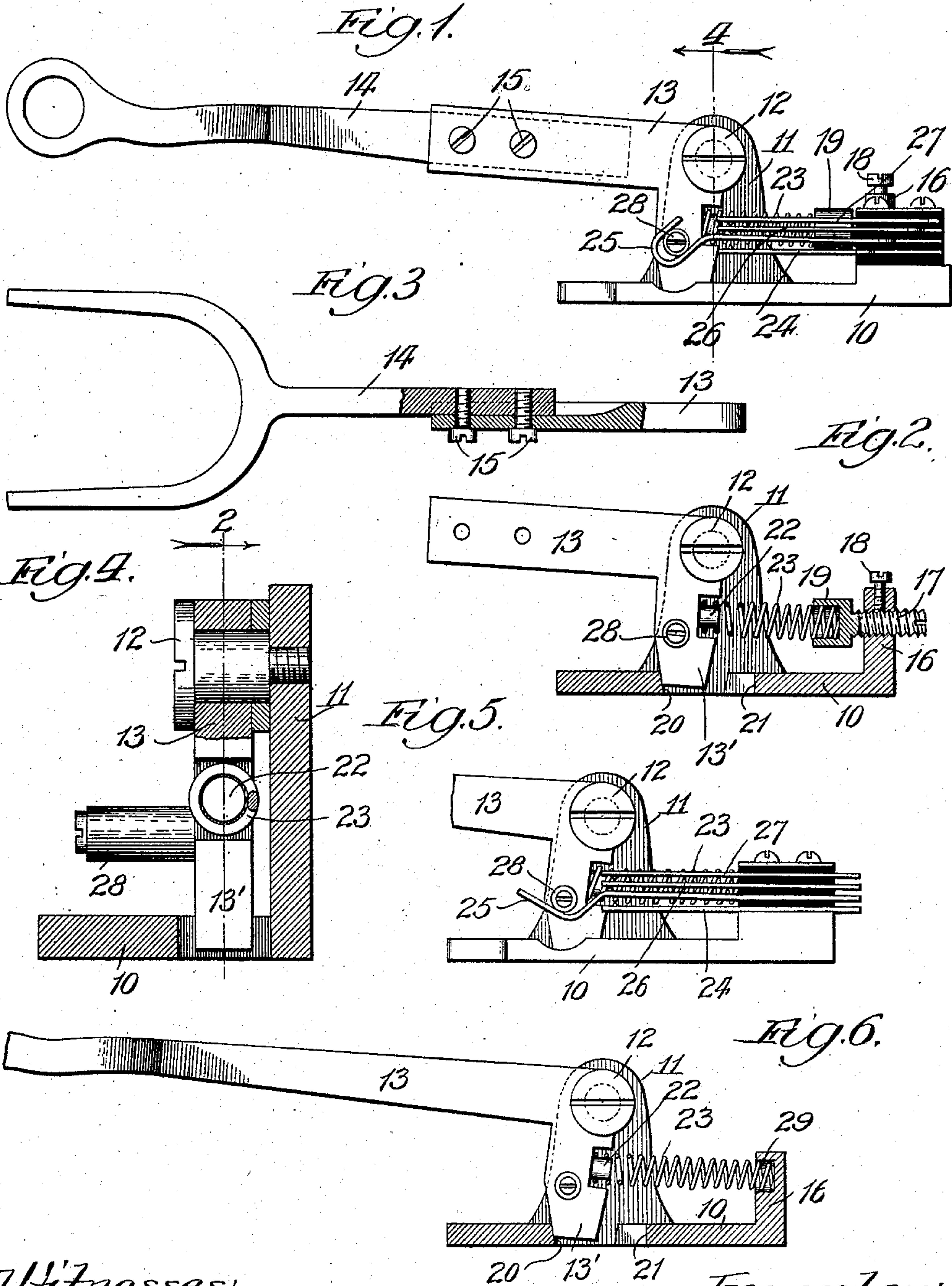


H. TIDEMAN.
TELEPHONE HOOK SWITCH.
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UNITED STATES PATENT OFFICE.

HENRY TIDEMAN, OF MENOMINEE, MICHIGAN.

TELEPHONE HOOK-SWITCH.

No. 901,212.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY TIDEMAN, a citizen of the United States of America, and a resident of Menominee, county of Menominee, and State of Michigan, have invented a new and useful Improvement in Telephone Hook-Switches, of which the following is a specification.

My invention pertains to the manufacture of parts for use in the assembly of complete telephone subscriber's equipments, and provides an improved type of gravity switch or hook switch to be operated when the subscriber hangs up his receiver, in the manner well known.

I provide a pivoted actuating part to which a removable extension receiver supporting member is detachably secured, the actuating part I secure pivotally to a base piece and arrange for such interference between the base and the movable actuating member as will limit properly the angular motion of the movable member. Upon the base I mount the usual set of switch springs, and also a spring for holding the actuating member retracted, and I provide further simple and reliable adjustment means for the retracting spring and locking means for that adjustment.

This specification is accompanied by a sheet of drawings containing six figures, of which—

Figure 1 shows elevation of my complete device; Fig. 2 shows section through the device; Fig. 3 shows detail of the detachable extension lever; Fig. 4 shows section through Fig. 1 on the line 4, the section of Fig. 2 being taken through such part of the complete device as corresponds to the line 2 of Fig. 4; Fig. 5 shows a simplified form, and Fig. 6 shows a section of the simplified form of Fig. 5, the section being taken in a plane corresponding to that of Fig. 2.

The rigid base 10 has an integral vertical lug 11 drilled and threaded to receive the pivot screw 12. The pivot screw 12 supports a bell-crank actuating member 13 which has the detachable hook extension 14. The relation of the two parts 13 and 14 is shown clearly in Fig. 3; the part 14 is held in alignment by its snug fit in the channel or groove in the part 13 and the parts are secured together by means of the screws 15.

Referring to Fig. 2, the base 10 has a second vertical lug at 16 which is drilled and

threaded in two directions receiving respectively the adjustment screw 17 and the lock screw 18. The adjustment screw 17 is slotted at its headless end for control by screw driver, and at the alternative end 19 it is terminated in a cup-shaped head. The base 10 further has an opening of which two edges are shown at 20 and 21 in Fig. 2. The downwardly projecting arm 13' of the actuating member 13 projects into this opening, and the angular movement of the member 13 is limited by the engagement of its arm 13'.

The arm 13' carries a rearwardly extending stud 22 of diameter to pass within a coiled compression spring 23. The cup 19 of the adjustment screw 17 is of the proper size to receive the alternative end of the spring 23. The tension of this spring keeps the arm 13 and extension 14 in their upper position except when depressed by the weight of the telephone receiver. Proper adjustment is obtained by turning the adjustment screw 17 by means of a screw driver, the adjustment when attained being permanently secured by setting the lock screw 18.

Upon the base 10, I mount the set of switch springs 24—25—26—27, the spring 25 being extended and bent into hook form to engage both sides of the roller 28, which roller is mounted upon the arm 13' of the actuating member 13. By bending the spring 25 to the form shown, it is propelled into its proper position corresponding to the position of the actuating member 13 regardless of any spring tension which the spring 25 may have.

Referring to the modification shown in Figs. 5 and 6, the modified form is a simplification of the preferred form hereinbefore described, the modifications consisting, first, in the simplification of the form of the switch spring 25; second, in the omission of the detachable feature from the hook lever, and, third, in the omission of the adjustment means 17. The cup head of the screw 17 is replaced in the modified device by the recess at 29 in the lug 16, proper pressure upon the hook lever 13 being provided for initially by selection of a spring 23 of proper length and strength.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

In a telephone hook switch, a base, a lug

upon said base, a pivoted hook lever upon
said lug, an adjusting screw threaded into
said base, a compression spring between said
adjusting screw and said lever, and locking
5 means for said adjusting screw, substantially
as described.

Signed by me at Menominee, county of

Menominee and State of Michigan, in the
presence of two witnesses.

HENRY TIDEMAN.

Witnesses:

LEOPOLD JACKMAN,
F. J. DONOVAN.