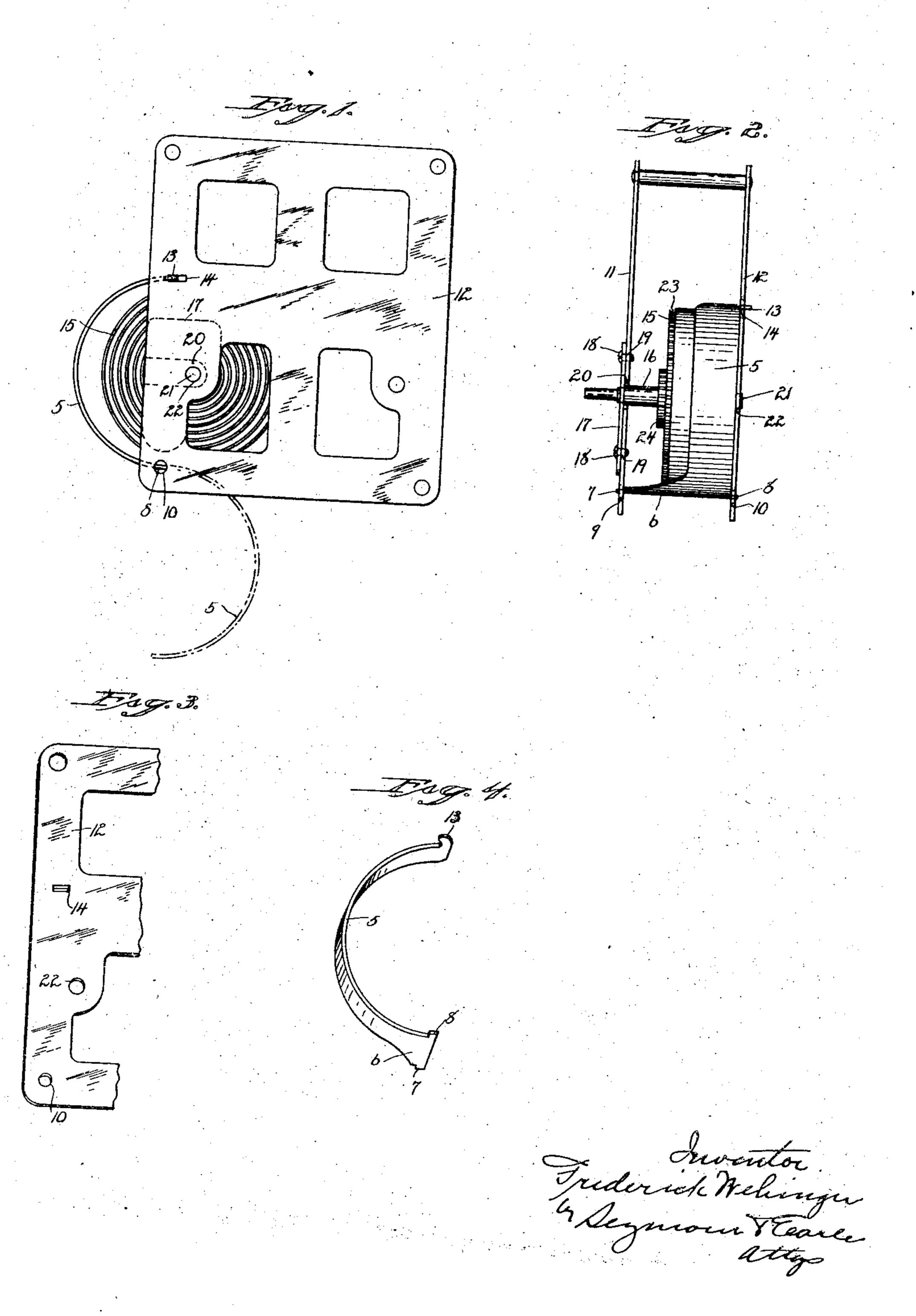
F. WEHINGER.
PIVOTAL GUARD FOR CLOCK SPRINGS.
FILED SEPT. 29, 1922.



UNITED STATES PATENT OFFICE.

FREDERICK WEHINGER, OF WATERBURY, CONNECTICUT, ASSIGNOR TO WATERBURY CLOCK CO., OF WATERBURY, CONNECTICUT, A CORPORATION.

PIVOTAL GUARD FOR CLOCK SPRINGS.

Application filed September 29, 1922. Serial No. 591,242.

To all whom it may concern:

5 and State of Connecticut, have invented a tegral, retaining-hook 13 adapted to be 10 and the characters of reference marked trance of the said hook 13 into the slot 14 represent in—

otal guard for clock springs.

Fig. 2 an edge view thereof.

20 rear movement-plate thereof.

pivotal guard.

in clock-movements, the object being to pro- bearing-hole 22 in the front movement-25 vide a clock-movement with a simple, cheap, plate 12 in the usual manner. By swinging effective and convenient spring guard.

ment-plates of a clock, of a pivotal spring-

30 guard mounted between the same.

35 the spring of such unit.

45 rear edge of its lower end laterally extended springs. to form an integral mounting-arm 6 terminating in a trunnion 7 complemented by 1. In a clock-movement, the combination a trunnion 8 located upon the lower end of with the movement-plates thereof, of a its forward edge, the said trunnions respec- spring, and a spring-guard pivotally mount-50 tively entering bearing-holes 9 and 10 in ed between the said plates in position to the rear and front movement-plates 11 and guard the said spring. 12, between which the guard is thus piv- 2. In a clock-movement, the combination

lines in Figs. 1 and 2, and into an open or 55 Be it known that I, Frederick Wehinger, clearance position, as shown by broken lines a citizen of the United States, residing at in Fig. 1. At its opposite, or upper, end, the Waterbury, in the county of New Haven guard terminates in a forwardly-turned, innew and useful Improvement in Pivotal hooked into an anchoring-slot 14 suitably 60 Guards for Clock Springs; and I do hereby positioned in the front movement-plate 12, declare the following, when taken in con- the spring of the guard, as a whole, permitnection with the accompanying drawings, ting it to be sufficiently sprung for the enthereon, to be a full, clear, and exact de- and its disengagement therefrom. When in 65 scription of the same, and which said draw- its closed position, the guard forms an efings constitute part of this application, and fective protection for the alarm-spring 15, though equally applicable for the protection 15 Fig. 1 a view in rear elevation of a clock- of the time-spring of the movement. As movement provided with my improved piv-shown, the alarm-spring arbor 16 has bear-70 ing in its rear end in a removable bridge 17 secured in place by two screws 18 enter-Fig. 3 a broken perspective view of the ing suitable threaded screw-holes 19 in the rear movement-plate 11, which is formed Fig. 4 a detached perspective view of the with a clearance-notch 20, which permits the 75 bearing 21 at the forward end of the arbor My invention relates to an improvement 16 to be inserted into and removed from a the guard 5 into its open position, the alarm- 80 With these ends in view, my invention spring 15 is rendered as accessible for any consists in the combination with the move-required attention as though the guard were not present. If the alarm-spring unit is demountable as a unit, as shown, the swing-My invention further consists in the com- ing of the guard into its open position per- 85 bination with the movement-plates of a mits the alarm-spring unit to be mounted clock, of a demountable spring-unit, and a and demounted without disturbing the pivotal spring-guard for the protection of plates 11 and 12 by removing and re-attaching the arbor-bridge 17 in the usual man-My invention further consists in a piv- ner. As shown, the alarm-spring unit con- 90 otal guard for clock springs, having certain sists of the spring 15, arbor 16, wheel 23 details of construction as will be herein- and ratchet-wheel 24, organized to be hanafter described and pointed out in the claims. dled as one piece. Although my improved In carrying out my invention, as herein spring-guard is shown herein as combined shown, I employ a substantially semicircu- with a demountable alarm-spring unit, it is 95 lar spring-guard 5 made of heavy spring applicable for use in clocks in which the metal, uniform in width throughout the alarm-spring is not so demountable, and for main portion of its length, but having the the protection of time, as well as alarm-

I claim:

100

otally mounted, so as to be swung into its with the movement-plates thereof, of a closed or guard position, as shown by full spring-guard pivotally mounted between the said plates and formed at one end with one of the plates for being held in its closed mounting trunnions and at its opposite end position.

with an anchoring-hook.

3. In a clock-movement, the combination with the front and rear movement-plates thereof, of a demountable spring-unit, a removable bridge therefor, and a spring-guard pivotally mounted between the said plates in position to guard the spring and provided with means for engagement with

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

FREDERICK WEHINGER.

Witnesses:

J. R. PUTNAM,

J. C. GARRICK.