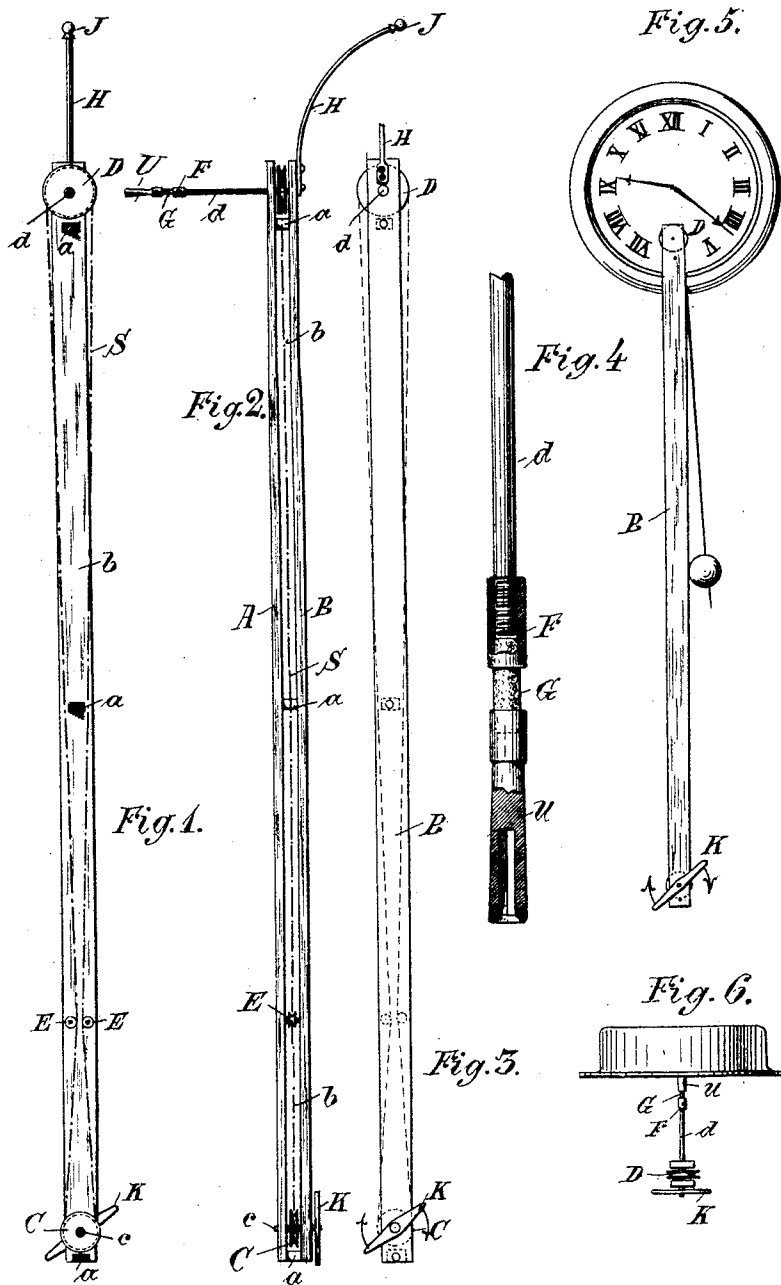


(No Model.)

F. BAUM.
CLOCK KEY.

No. 497,422.

Patented May 16, 1893.



WITNESSES:

W. D. Mott
D. Robertson.

INVENTOR:

Friedrich Baum
BY Gartner & Co. Atty.

UNITED STATES PATENT OFFICE.

FRIEDRICH BAUM, OF VIENNA, AUSTRIA-HUNGARY, ASSIGNOR OF ONE-HALF TO FERDINAND HIRSCHFELD, OF SAME PLACE.

CLOCK-KEY.

SPECIFICATION forming part of Letters Patent No. 497,422, dated May 16, 1893.

Application filed September 29, 1892. Serial No. 447,220. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH BAUM, a subject of the Emperor of Austria-Hungary, residing at Vienna, Austria-Hungary, have
5 invented a new and useful Universal Winding-Up-Watch Apparatus, (for which I have not obtained a patent in any country,) of which the following is a specification.

The object of my invention is to provide a
10 universal clock winding key, by means of which clocks suspended above the ordinary reach of a person can be easily wound up, without the use of step ladders, &c.; simple and durable in construction, and reliable in
15 operation.

Said invention consists in the improved key holder, its operating mechanism, and the combination and arrangement of the various parts thereof, substantially as will be herein-
20 after more fully described and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views,
25 Figure 1 illustrates in a central vertical section my improved clock-winding key. Figs. 2 and 3 are side and front elevations of the same respectively. Fig. 4 is an enlarged detail view of the key holder, and Figs. 5 and 6
30 illustrate the way of using my improved key for winding up a clock.

In said drawings A and B represent the frame plates, adapted to form a longitudinal channel *b*. Said plates are firmly secured together by cross-pieces or bridges *a*, and are
35 also adapted to form the bearings for the spindles *c* and *d*. To the spindle *c*, and between the plates A B is secured a grooved wheel C, and on the outside of frame B, and
40 to the extending portion of spindle *c* a crank or lever K. The upper spindle (*d*) is also provided with a grooved wheel D, connected with the wheel C by a belt or rope S, passing over friction rollers E, arranged in channel
45 *b*. (Said friction rollers are also adapted to

keep the belt S within the channel.) To the extending portion of the spindle *d* is secured in any desired manner, a sleeve F, provided at its free end with an elastic rod G, (preferably made of leather.) To the end of said
50 elastic rod is secured the key U, adapted to be removed and be replaced by keys to fit their respective clocks.

At or near the top of frame B (or A if desired) is secured a wire H, provided at its
55 free end with a ball J, made of rubber, cloth or any desired material. By means of said extension wire, the position of the hands of clock can be changed if desired. In operation the key U is placed with its squared
60 socket on the winding stud of the clock, and is then by means of the crank or lever K (operating the wheels C and D) rotated as will be manifest.

By means of the intermediate elastic rod
65 G, the clock is prevented from being moved out of place, as said rod will follow the movement of the frames A and B.

I do not intend to limit myself to the construction shown and described, as various alterations can be made, without changing the
70 scope of my invention, but

What I claim as new, and desire to secure by Letters Patent, is—

In a clock winding key the combination
75 with the frame, of a spindle arranged at the upper end of said frame, a sleeve arranged on said spindle, an elastic rod secured in said sleeve and adapted to receive the key, and means for operating said spindle from the op-
80 posite end of the frame, all said parts, substantially as described and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscrib-
85 ing witnesses.

FRIEDRICH BAUM.

Witnesses:

MORIZ GELBHAUS,
W. B. MURPHY.