

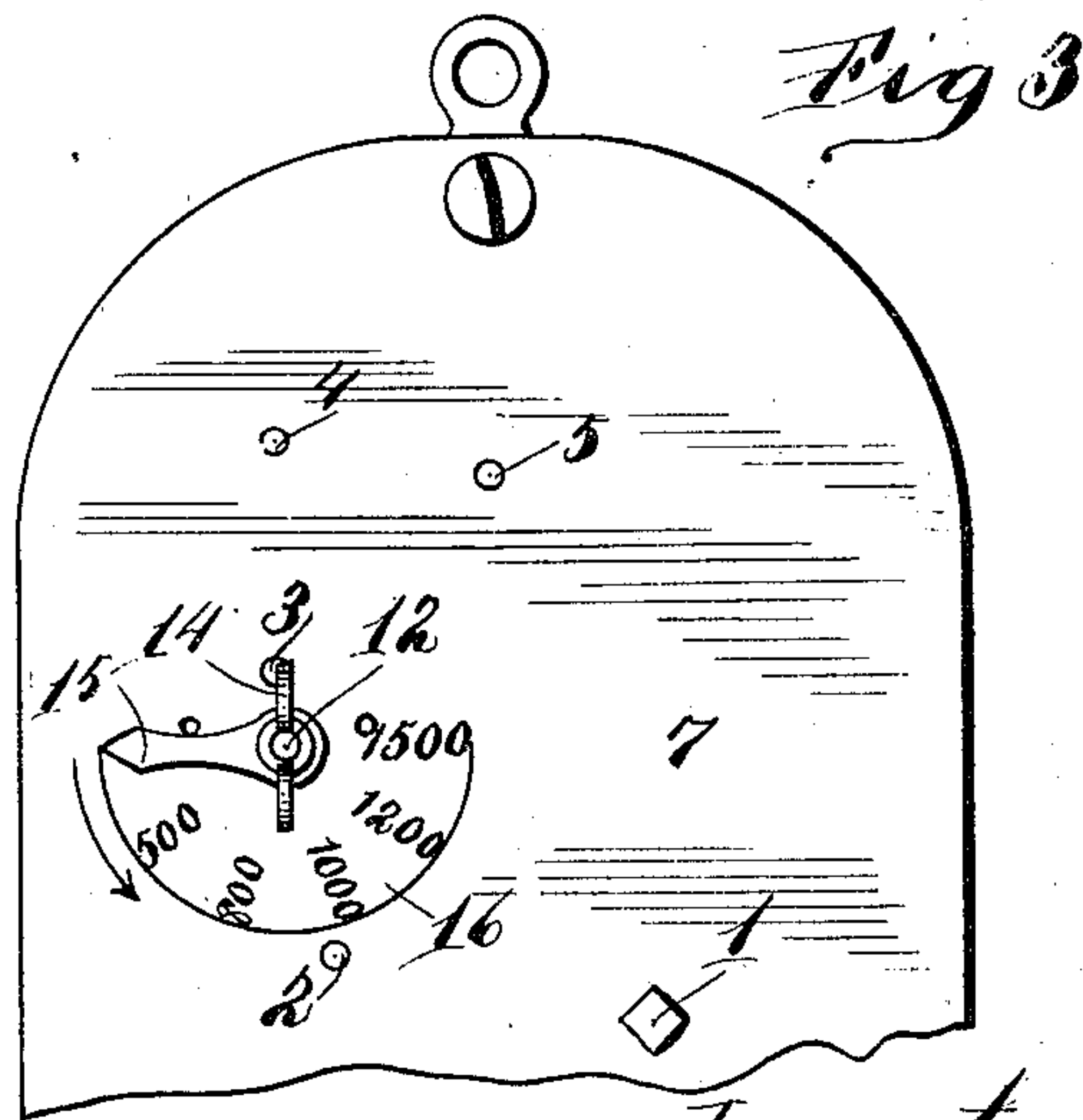
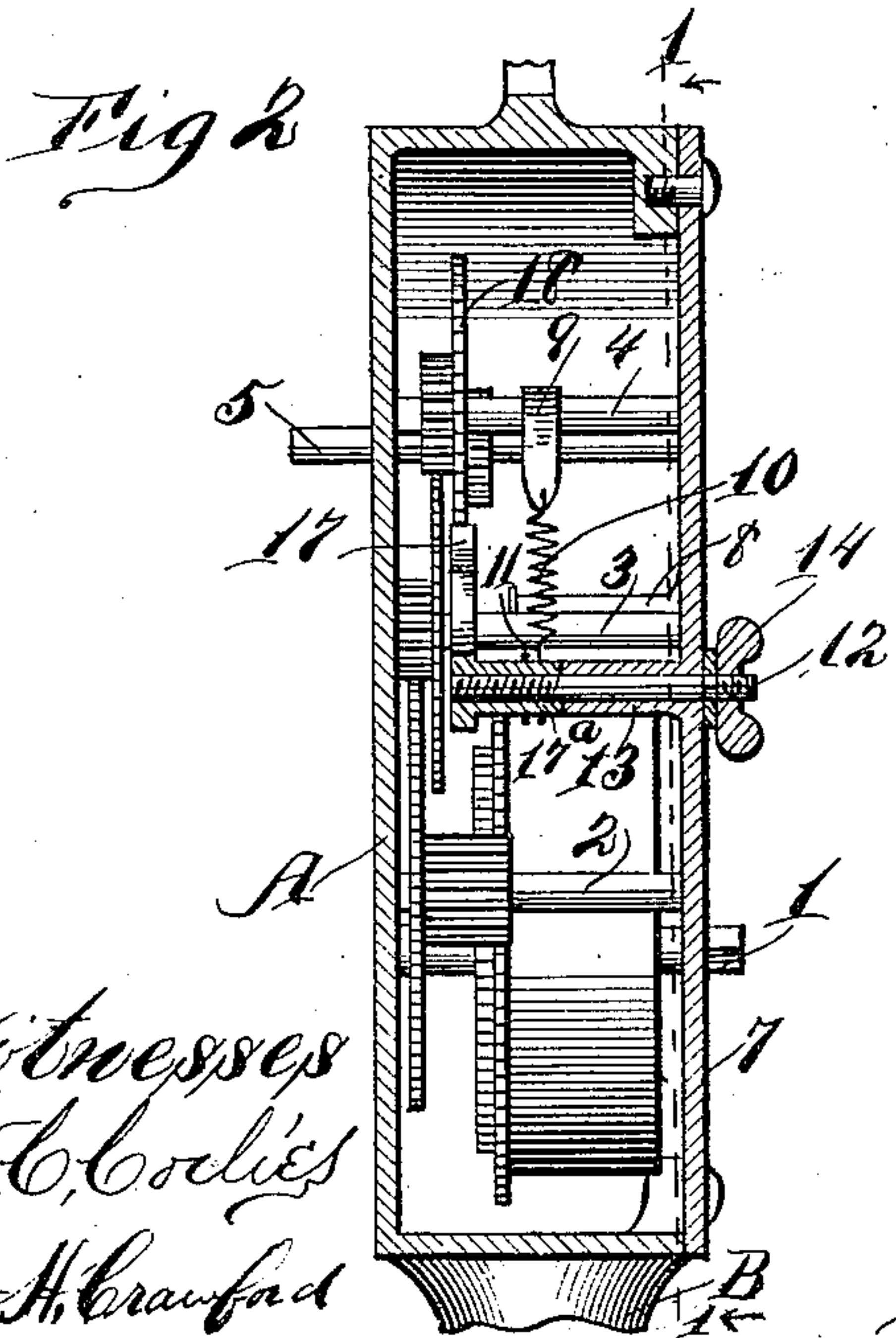
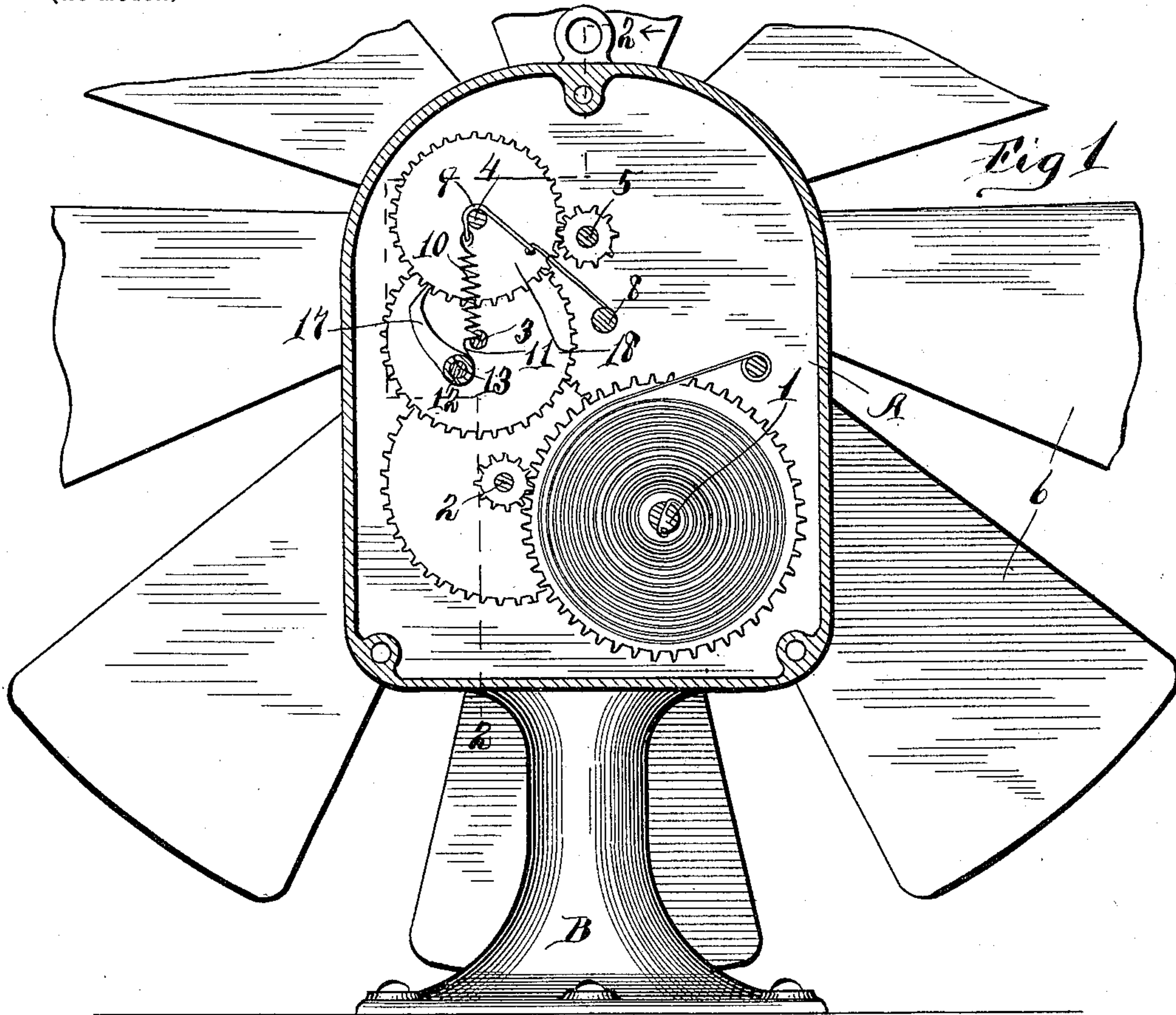
No. 610,601.

Patented Sept. 13, 1898.

H. DE TAMBLE.
FANNING DEVICE.

(Application filed Nov. 29, 1897.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY DE TAMBLE, OF AURORA, ILLINOIS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF TWO-THIRDS TO PETER WEILAND, OF SAME PLACE, AND GEORGE E. ACKERMAN, OF YORKVILLE, ILLINOIS.

FANNING DEVICE.

SPECIFICATION forming part of Letters Patent No. 610,601, dated September 13, 1898.

Application filed November 29, 1897. Serial No. 660,169. (No model.)

To all whom it may concern:

Be it known that I, HENRY DE TAMBLE, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Fanning Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel construction in a fan-motor and means for regulating the same, the object being to provide a device of this kind which is portable, easily manipulated, and which can be regulated to cause the fan to run at any desired speed; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a sectional view of a fan-motor constructed in accordance with my invention, taken on the line 1 1 of Fig. 2. Fig. 2 is a sectional view on the line 2 2 of Fig. 1. Fig. 3 is a fragmentary rear elevation showing the dial on the rear wall of the casing for regulating the speed of the fan.

Referring now to said drawings, A indicates the casing of the motor, which is mounted upon a suitable foot-piece or base B. Within said casing and journaled in the walls thereof are a series of shafts 1, 2, 3, 4, and 5, of which shaft 1 is the main or drive shaft and is actuated by a spiral spring. The counter-shafts 2, 3, 4, and 5 are geared to said main shaft in clockwork fashion, so as to gear said counter-shaft 5, which carries the fan 6, to a very high speed. Mounted in the rear wall 7 of said casing A and below said counter-shaft 5 is a lug 8, to which one end of a strap-brake 9 is rigidly secured, which passes over one of said counter-shafts, which in the instance illustrated is the counter-shaft 4, and at its other end is secured to one end of a spiral spring 10, which at its other end is secured to a strap or cord 11, secured to a shaft 12, journaled in a sleeve-bearing 13 on said rear wall 7 of said casing. At its outer end

said shaft 12 carries a thumb-piece 14, by means of which it is turned, and also an indicating-finger 15, which is adapted to register with the dial 16 to indicate the speed of the motor. When shaft 12 is turned, said strap or cord 11 is obviously either wound upon or unwound from the same, thus varying the tension of said spring 10 and increasing or decreasing the friction or load upon said counter-shaft 4, thus altering the speed. It will be obvious that by turning said shaft 12 in the direction indicated by the arrow, Fig. 3, the tension of said spring 10 will be gradually released, thus increasing the speed of the fan. Rigidly mounted upon said shaft 12 is an arm 17, which is adapted to interlock with the large cog-wheel 18 on said counter-shaft 4 to prevent its rotation when said shaft 12 is in the position shown in Fig. 3 and which releases said wheel 18 when said shaft 12 is rotated in the direction of the arrow previously referred to.

I claim as my invention—

1. In a fan-motor, a spring-actuated drive-shaft, gearing between the latter and a counter-shaft carrying a fan, said gearing including intermediary counter-shafts, and means for regulating the speed of said fan comprising a strap-brake trained over one of said counter-shafts and connected at one end to a reel, an indicating-finger on said reel adapted to register with a dial on said casing, and a spring interposed in said strap-brake, whereby by turning said reel the tension of said spring is varied, thus varying the friction on said counter-shaft and altering the speed of said fan, substantially as described.

2. In a fan-motor, a spring-actuated drive-shaft, gearing between the latter and a counter-shaft carrying a fan, said gearing including intermediary counter-shafts, and means for regulating the speed of said fan comprising a strap-brake trained over one of said counter-shafts and connected at one end to a reel, an indicating-finger on said reel adapted to register with a dial on said casing, a spring interposed between the ends of said strap-brake, and an arm on said reel adapted to in-

terlock with one of said gear-wheels to lock the
same against movement during one position
of said reel, whereby by turning said reel in
one direction said arm releases said gear-
5 wheel and the tension of said spring is re-
lieved, thus varying the speed of said fan, sub-
stantially as described.

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

HENRY DE TAMBLE.

Witnesses:

RUDOLPH WM. LOTZ,
ERWIN J. LOTZ.