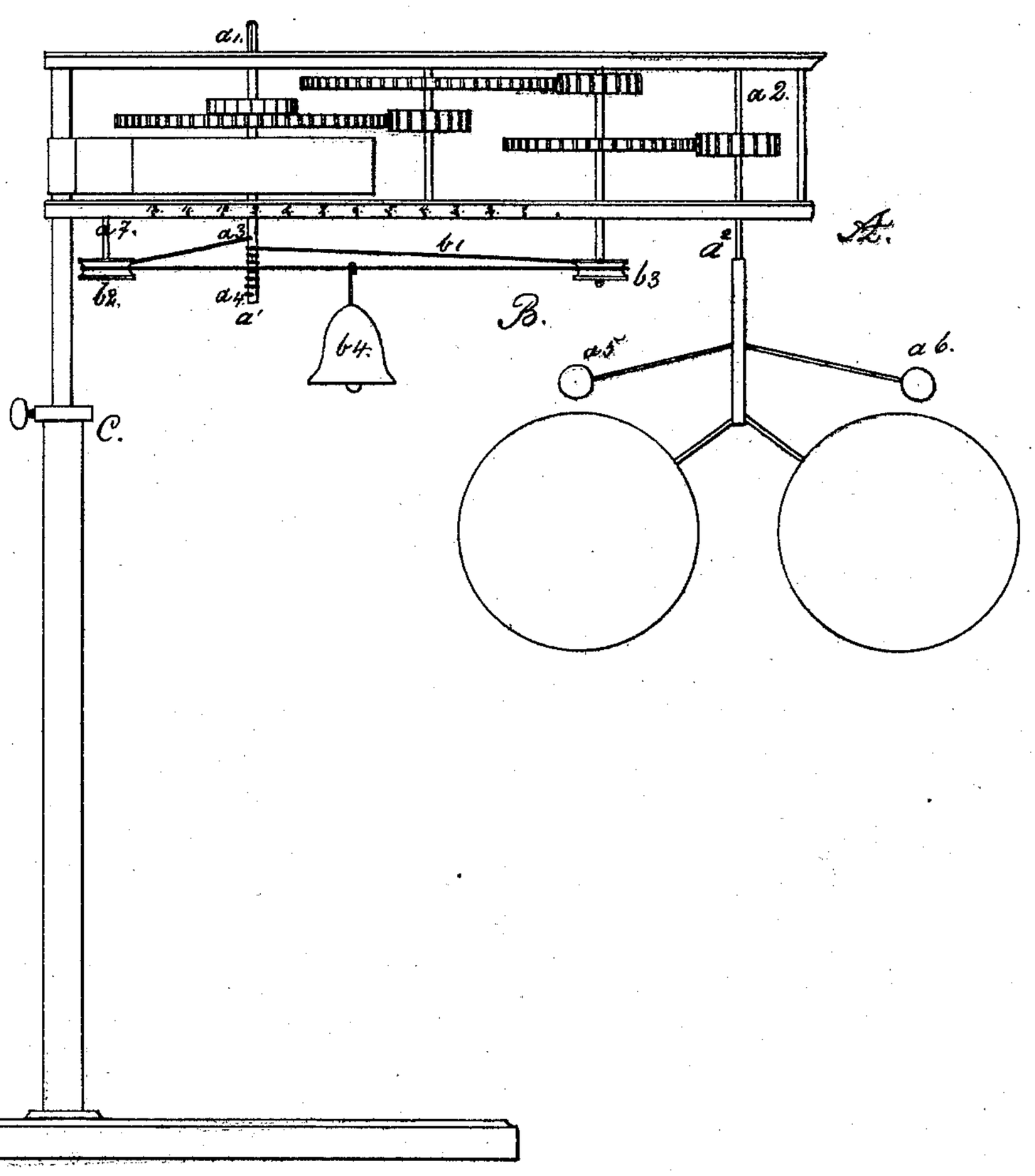
H. F. LANGEWISCHE.

Combined Fly Fans and Alarms.

No. 156,168. Patented Oct. 20, 1874.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY F. LANGEWISCHE, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN COMBINED FLY-FANS AND ALARMS.

Specification forming part of Letters Patent No. **156,168**, dated October 20, 1874; application filed August 4, 1874.

To all whom it may concern:

Be it known that I, HENRY FRED LANGEWISCHE, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain Improvements in Fly-Fans and Waking Apparatus Combined, of which the following is a specification:

The nature of my invention consists in the combination of a fly-fan, driven by means of a clock-work, with a waking apparatus, which is put in action at any desired time by means of a rope or chain fastened to the driving-shaft of the clock-work, and wound around it as often as the driving-shaft will be turned around its axis in winding up the clock-work. The rope then runs over two loose pulleys in a stretched position, and is fastened again to the driving-shaft. Hereby the rope forms, by means of the driving-shaft, an endless band, which alternately winds up or off as soon as the clock-work is in motion.

On the frame of the clock-work a scale is fixed, which indicates the time portion which a certain point of the rope passes.

A bell is hung on the unsupported part of the chain at that point which indicates the number of time portions, after which the bell shall be rung by means of hammers swinging on the shaft to which the fly-fan is attached.

In the accompanying drawing, showing a side elevation of the apparatus, A represents the fly-fan, driven by means of a clock-work. a^1 is the driving-shaft of the clock-work, and a^2 the shaft to which the fan is fastened. B is the waking apparatus. The rope b^1 is, at a^3 and a^4, connected with the driving-shaft a^1, and runs over the loose pulleys b^2 and b^3. The bell b^4 is fastened to the rope b^1 at any desired place, and will be rung at the convenient time by means of the movable hammers a^5 and a^6, which revolve on the shaft a^2. a^7 represents a scale.

The apparatus can be set at the desired height by means of the telescope-like joined tubes C, on which the whole apparatus rests. Metal or other suitable material is used to build this apparatus.

I claim as my invention—

In combination with the driving-shaft a^1 of a fan, driven by clock-work, the belt b^1, mounted as described, and carrying the bell b^4, the index a^7, and revolving hammers a^5 a^6, all constructed and arranged to operate as and for the purpose set forth.

HENRY FRED LANGEWISCHE.

Witnesses:

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