

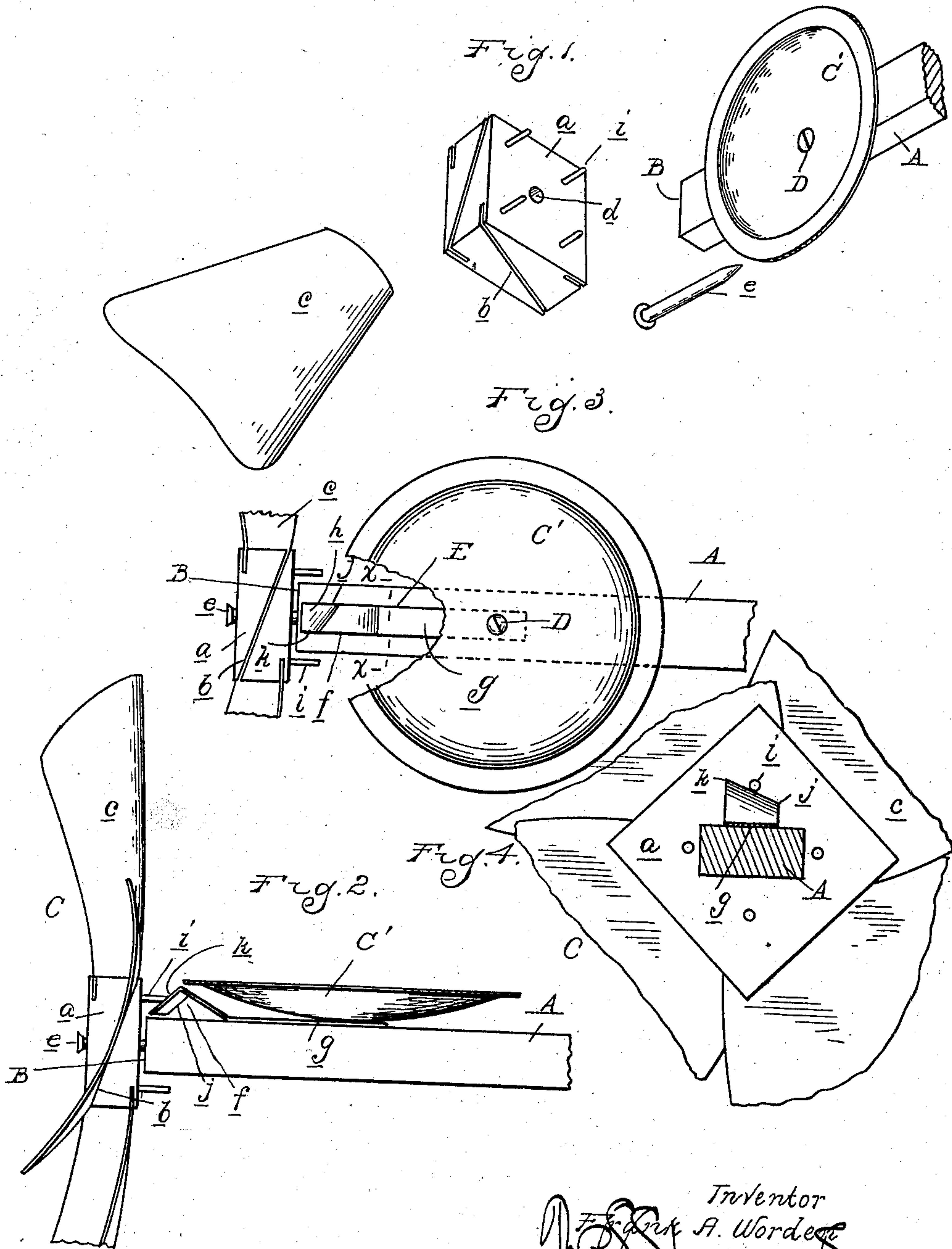
No. 717,489.

Patented Dec. 30, 1902.

F. A. WORDEN.  
TOY WIND WHEEL.

(Application filed July 8, 1902.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

FRANK A. WORDEN, OF YPSILANTI, MICHIGAN.

## TOY WIND-WHEEL.

SPECIFICATION forming part of Letters Patent No. 717,489, dated December 30, 1902.

Application filed July 8, 1902. Serial No. 114,722. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK A. WORDEN, a citizen of the United States, residing at Ypsilanti, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Toy Wind-Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates particularly to a toy wind-wheel provided with a gong adapted to be sounded upon the rotation of the wheel; and the invention consists in the novel construction of the wind-wheel and in the peculiar arrangement and combination of the various parts thereof, as will be more fully hereinafter described and illustrated.

In the drawings, Figure 1 is a perspective view of the toy, some of the parts being shown detached. Fig. 2 is a side elevation thereof, and Fig. 3 is a view in elevation at right angles to Fig. 2. Fig. 4 is a section on line *xx*, Fig. 3.

In the drawings thus briefly described the reference-letter A designates the handle, upon the end B of which a wind-wheel C is rotatably mounted.

C' is a gong, of sheet metal, secured by a screw or pin D to the handle in proximity to the wheel, and E is a spring-striker for the gong.

In construction the wind-wheel comprises a head *a* in the form of a square block having the diagonal slots or saw-kerfs *b* formed in each of its sides, as shown.

*c* designates fan-blades formed, preferably, of veneer, which are inserted within the slots, as illustrated in Fig. 2. The head is centrally apertured, as at *d*, and is pivoted to the handle end by a pin or nail *e*.

The striker referred to is formed from a single flat strip of spring metal bent to form an angle-shaped section *f*, constituting the striker or hammer proper, and the straight section *g*, which supports the hammer-section. The section *f*, as shown, is arranged upon the side of the handle to which the gong is secured and is held in place by the screw or pin D. The striker proper is located beneath and in proximity to the edge of the gong and has its free portion or member *h* ex-

tending in the path of a series of spaced pins *i*, which project from the inner side or face of the head, as illustrated. The section or member *h* is also tilted or inclined in such manner that the pins pass freely over the edge portion *j* thereof, but subsequently engage the member and depress it as they approach the opposite edge *k*. Upon the rotation of the wind-wheel the pins described will successively actuate the striker in the manner set forth, and as they pass out of engagement with the hammer-section the latter will be retracted by the spring of the material and the gong sounded.

It will be obvious from the construction of the device and the manner in which the parts are assembled that the toy may be manufactured at slight cost. Furthermore, the parts being detachable, as shown and described, the wind-wheel may be knocked down for the purpose of shipment or storage.

What I claim as my invention is—

1. In a toy wind-wheel, the combination with a handle, of a wind-wheel pivoted thereto, a gong arranged upon said handle, a spring-striker for the gong, means for successively actuating the striker upon the rotation of the wind-wheel, and a single securing device rigidly connecting the gong and striker to the handle.

2. In a toy wind-wheel, the combination with a handle, of a wind-wheel detachably connected to the handle end, a gong detachably secured to one of the handle-faces, a series of spaced pins carried by the wind-wheel, and a spring-striker for the gong comprising a flat strip of spring material attached at one end to the handle by the securing device for the gong, and having its opposite end bent to form an angle-section extending in operative relation to the gong, the free portion or member of said section projecting in the path of the spaced pins and being inclined relatively to the pins in the manner and for the purpose set forth.

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

FRANK A. WORDEN.

Witnesses:

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