E. PERRY.

DEVICES FOR RINGING BELLS.

No. 195,391. Patented Sept. 18, 1877.

Fig. 1.

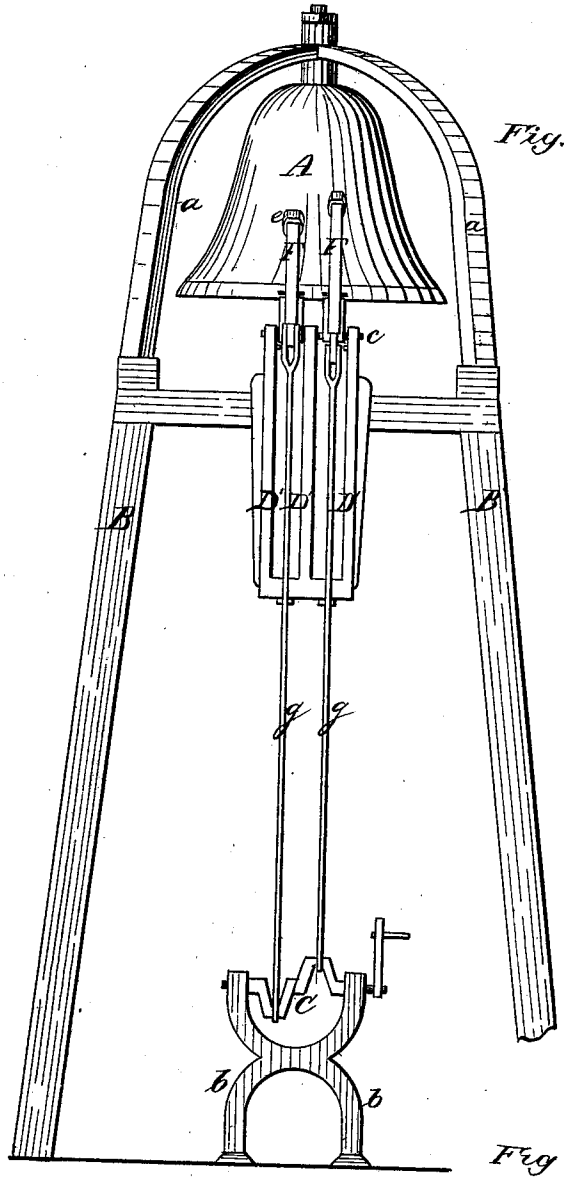


Fig. 2.

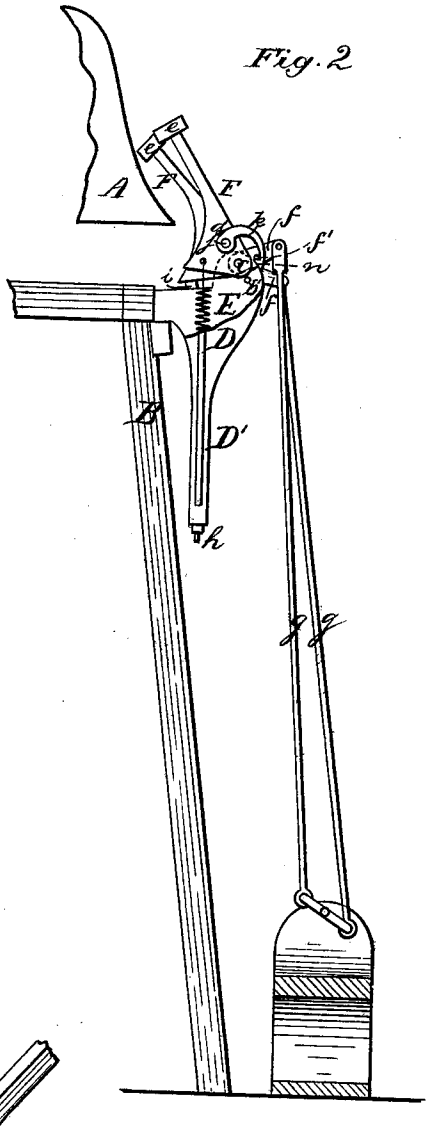
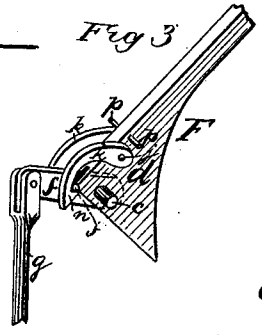


Fig 3.



Attest:

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Inventor:

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by Louis Bagger & Co

atty.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ELTON PERRY, OF AUSTIN, TEXAS, ASSIGNOR OF ONE-HALF HIS RIGHT TO FRED STERZING, OF SAME PLACE.

IMPROVEMENT IN DEVICES FOR RINGING BELLS.

Specification forming part of Letters Patent No. **195,391**, dated September 18, 1877; application filed August 13, 1877.

To all whom it may concern:

Be it known that I, ELTON PERRY, of Austin, in the county of Travis and State of Texas, have invented certain new and useful Improvements in Bell-Striking Mechanism; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front elevation. Fig. 2 is a side elevation, with part of the frame broken away to show the construction; and Fig. 3 is an enlarged, partly sectional, perspective view.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to an improved mechanism for striking bells; and it consists in the construction and arrangement of parts, which I shall now proceed more fully to describe.

In the drawings, A is the bell, which is suspended in the usual manner from brackets *a a*, resting upon the upper beams of the scaffolding or bell-tower B. At the foot of this is arranged a frame, consisting of two uprights, *b b*, in which a double crank-shaft, C, has its bearings. D D D are brackets, secured to the top of scaffolding B, as shown, and united by a shaft, *c*, upon which the strikers F are pivoted. These consist of triangular castings *d*, the upper ends or corners of which are provided with heads or hammers *e*. The corners by which castings *d* are pivoted to shaft *c* are recessed, as shown in the drawing; and in these recesses, upon the shaft *c*, are pivoted short connecting-rods *f*, the ends of which are connected by rods *g g* with the cranks of shaft C.

The inner corners of castings *d* rest upon rubber cushions *i i*, countersunk in the framework of scaffolding B. Against these cushions they are held by coiled springs E, arranged between downward projections D′ of brackets D, and provided with tension-bolts *h*, by which their tension may be regulated.

To the sides of castings *d d*, at *j j*, are pivoted curved latches *k k*, the ends of which have hooks *n n*. The connecting-rods *f f* have upon the sides studs *f′ f′*, which engage with the hooks *n n*, and similar studs *b′ b′* are arranged upon the insides of brackets D.

When the crank-shaft C is rotated (by means of the crank or handle provided for that purpose) the ends of the pivoted rods *f f* are alternately raised and lowered through the intermediate rods *g g*. When they are lowered the studs *f′ f′* will engage with hooks *n n* of the latches *k k*, which, being thus pulled down, raise the hammers from the bell. When the hooks reach the studs *b′ b′* they are pushed outward, and thus thrown off the studs *f′ f′*, when the tension of spring E will force the striker down against the bell, the rubber cushion taking off the jar and lifting the hammer-head slightly from the surface of the bell, in the usual manner.

The sides of castings *d* have pins or projections *p*, to prevent the latches *k* from swinging out of position.

My improved bell-striking mechanism is applicable to fire, hotel, school, church, factory, and other bells. By it the striking may be performed with great rapidity and regularity—an object of great importance, especially in the case of fire-bells.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The pivoted castings *d*, having pivoted latches *k*, provided with hooks *n*, in combination with the pivoted rods *f*, having studs *f′* and brackets D, having studs *b′*, substantially as and for the purpose herein shown and specified.

2. The improved bell-striking mechanism herein described, consisting, essentially, of scaffolding B, having brackets D, provided with studs *b′*, pivoted castings *d*, having pivoted hooked latches *k*, pivoted rods *f*, having studs *f′*, connecting-rods *g*, crank-shaft C, springs E, and rubber cushions *i*, all combined, arranged, and operating substantially in the manner and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ELTON PERRY.

Witnesses:
T. T. DUNLAP,
U. VON ROSENBERG, Jr.