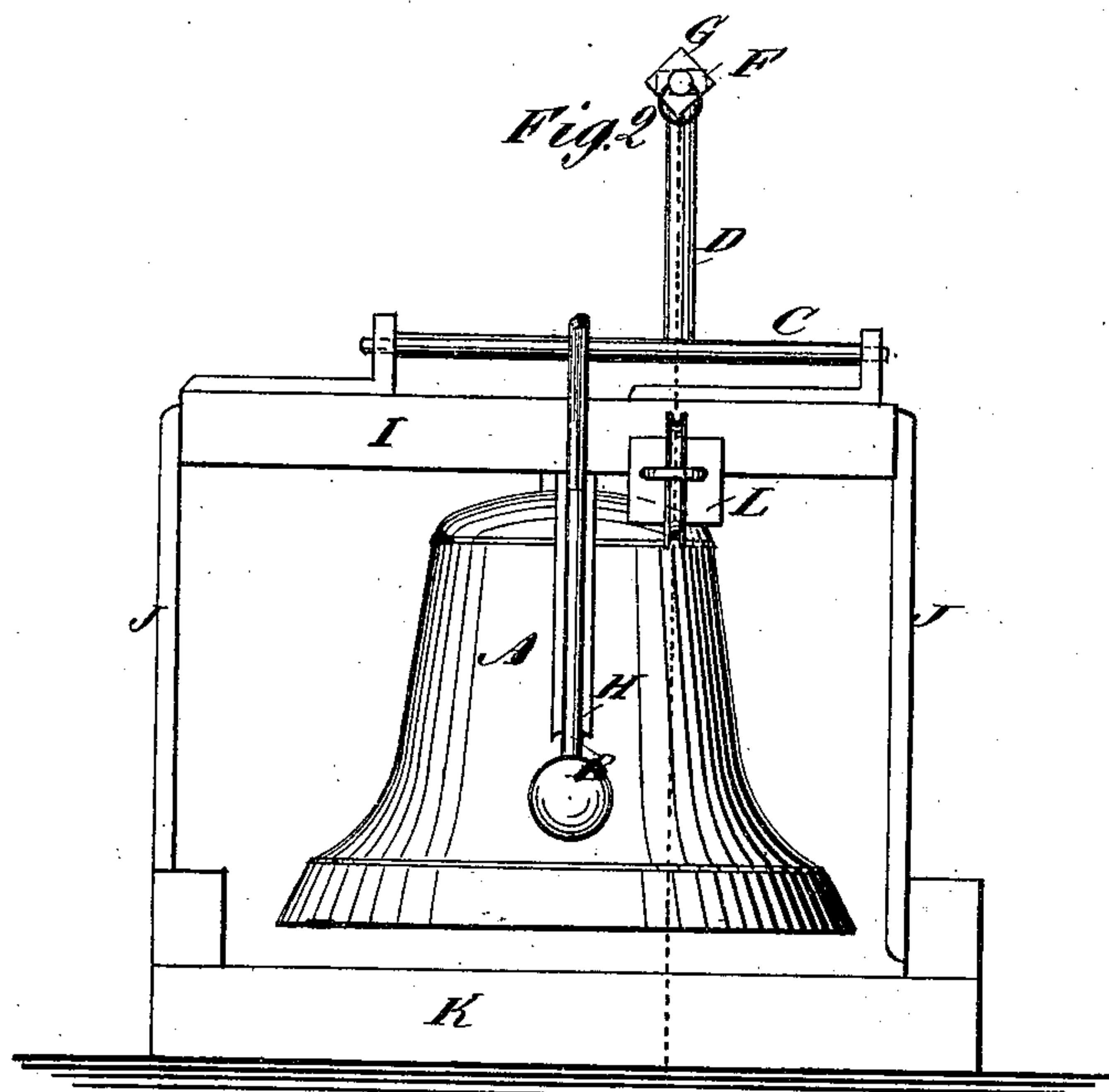
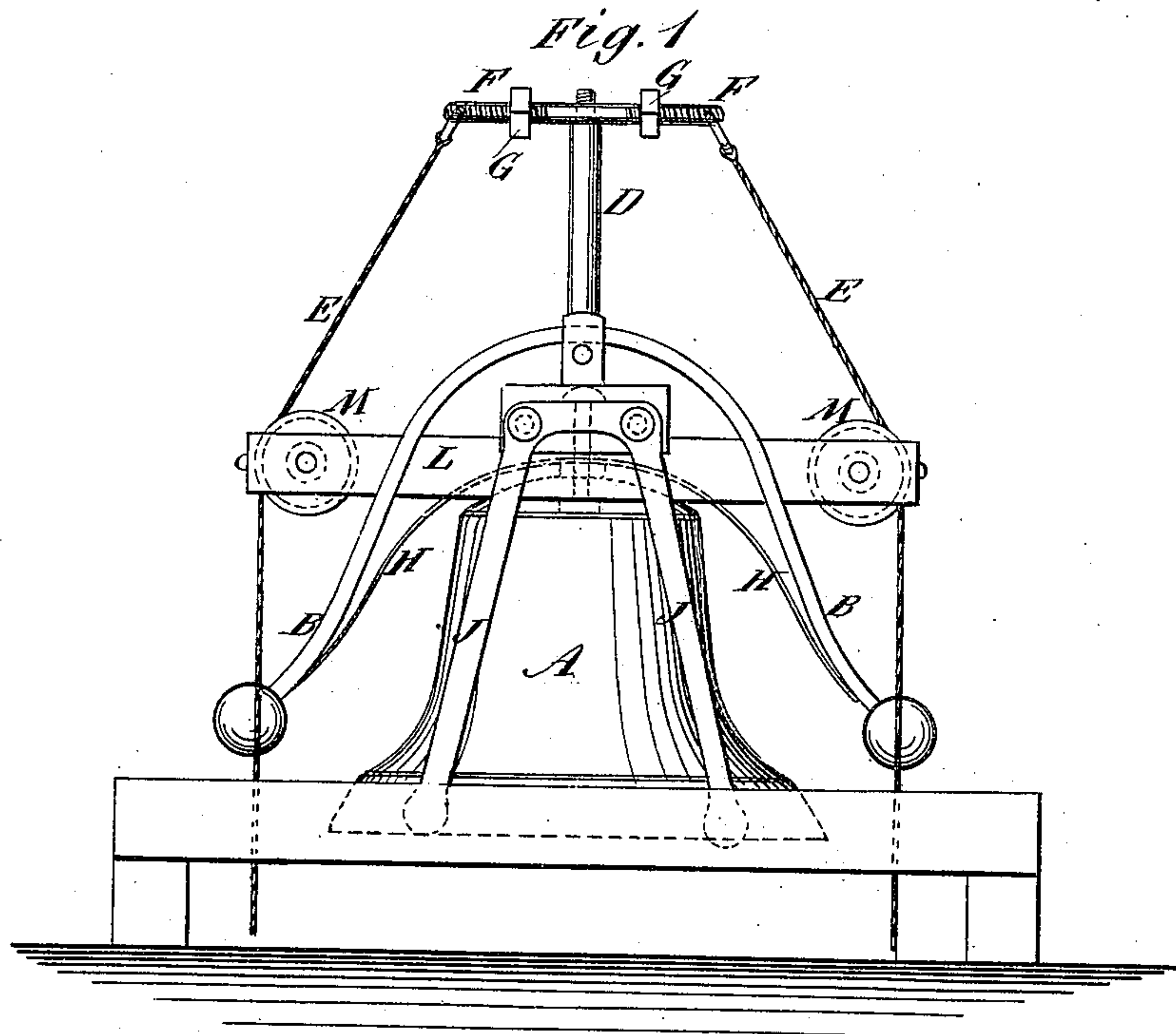


J. W. COFFEY.
BELL-RINGING APPARATUS.

No. 179,524.

Patented July 4, 1876.



WITNESSES:

C. Neveux
John Goethals

INVENTOR:

J. W. Coffey

BY

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UNITED STATES PATENT OFFICE.

JAMES W. COFFEY, OF ELLETTSVILLE, INDIANA.

IMPROVEMENT IN BELL-RINGING APPARATUS.

Specification forming part of Letters Patent No. **179,524**, dated July 4, 1876; application filed May 22, 1876.

To all whom it may concern:

Be it known that I, JAMES W. COFFEY, of Ellettsville, Monroe county, Indiana, have invented a new and Improved Bell-Ringing Apparatus, of which the following is a specification:

My invention consists of a double bell-hammer, suspended on an axis over the bell, with a hammer on each of the two sides, so that when one is pulled down to strike the bell the other rises, preparatory to striking its blow; and each is balanced by the other, so that but very little power is required for operating it.

Figure 1 is a side elevation of a bell provided with my improved bell-ringing apparatus, and Fig. 2 is a side elevation taken in a plane at right angles to that of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the bell; B, the hammers; C, the axis on which they are mounted; D, a lever extending upward from the axis a suitable height for affording leverage to work the hammers by the ropes E; F, rods projecting from the upper end of the lever for attaching the ropes to

it, and for the application of adjustable counter-balance weights G, by which to adjust the hammers alike to the bell. H represents the spring for throwing off the hammers. The bell is mounted on the girder I, which is supported on the uprights J, which rest on a platform, K, of any approved form. L is a beam suspended from the girder I, to support guide-pulleys M, for carrying the ropes clear of the bell. The ropes will be pulled alternately for ringing the bell.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The double bell-hammer B, pivoted over the bell, and arranged to strike it alternately on opposite sides, substantially as specified.

2. The lever D, rods F, ropes E, and guide-pulleys M, combined with the double bell-hammer B, substantially as specified.

JAMES WILBERN COFFEY.

Witnesses:

GEORGE WASHINGTON HOUSTON,
JOHN ALFRED WALKER.