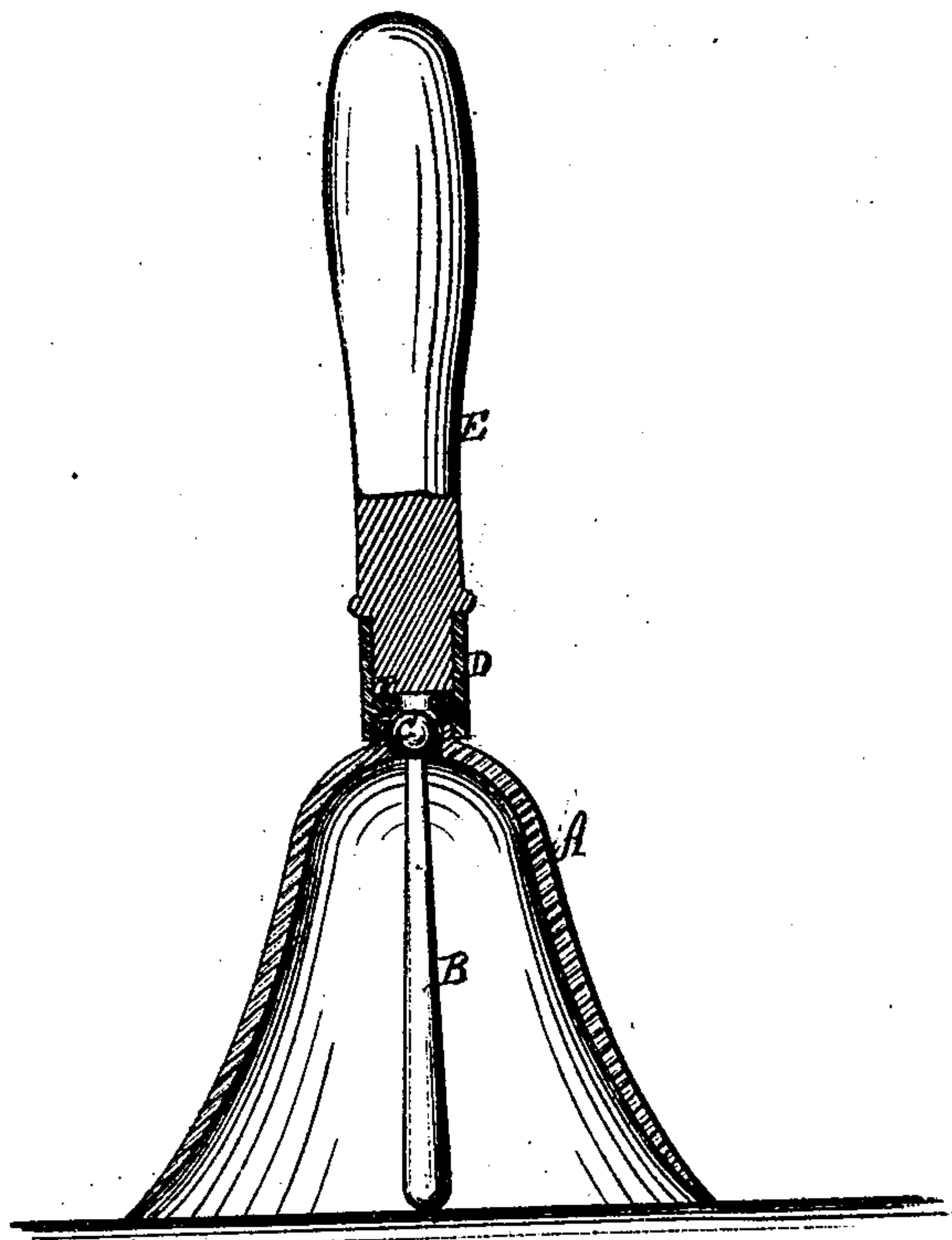


J. Kintz,

Bell.

No. 102,016.

Patented Apr. 19. 1870.



Witnesses:

*Chas. Hild
D. S. Mabee*

Inventor:

J. Kintz.
PER *[Signature]*
Attorneys.

United States Patent Office.

JOSEPH KINTZ, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO HIMSELF AND P. J. CLARK, OF SAME PLACE.

Letters Patent No. 102,016, dated April 19, 1870.

IMPROVEMENT IN BELLS.

Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that I, JOSEPH KINTZ, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Bells; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification.

The object of this invention is to so attach the clapper to the bell that it may turn in any direction, or revolve in the bell; and

The invention consists in attaching the clapper to the crown of the bell by a ball-and-socket connection, forming a universal joint, as will be hereinafter more fully described.

The accompanying drawing represents a vertical central section of a bell with the clapper attached according to my invention.

A is the bell, with a globular socket formed in its crown.

B is the clapper, with a ball, C, on its top end, so made as to loosely fit the socket in the crown of the bell.

The clapper is dropped down from the top, and the ball rests in the socket, as seen in the drawing, forming a universal joint, allowing the clapper to turn in any direction, and making a most perfect and durable connection.

D is the band or ferrule of the handle E.

This ferrule has an interior flange, F, which is made somewhat conical, so as to fit, or nearly fit, the top portion of the ball C.

The ferrule also has an interior screw-thread, and the handle is attached by screwing it onto the neck or crown of the bell, as seen in the drawing.

The advantages of this arrangement over the ordinary mode of attaching the clapper must be obvious to all.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

Attaching the clapper to a bell by means of a ball and socket, substantially in the manner herein shown and described.

JOSEPH KINTZ.

Witnesses:

JOHN Q. THAYER,
ORVILLE H. PLATT.