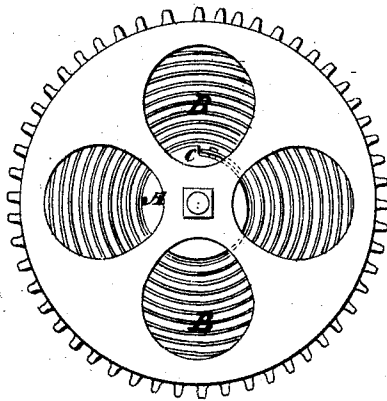


J. C. EDWARDS.
Main-Spring Attachments.

No. 151,765.

Patented June 9, 1874.



WITNESSES:

E. Wolff
Chiquier

INVENTOR:

J. C. Edwards
BY *Munniff*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES C. EDWARDS, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN MAINSPRING ATTACHMENTS.

Specification forming part of Letters Patent No. **151,765**, dated June 9, 1874; application filed March 7, 1874.

To all whom it may concern:

Be it known that I, JAMES C. EDWARDS, of Binghamton, in the county of Broome and State of New York, have invented a new and Improved Mainspring and Barrel-Arbor Connection, of which the following is a specification:

My invention consists of an eccentric notch or recess in the face of the arbor of the barrel to which the mainspring of a watch is connected, the notch being as deep as the thickness of the spring, and terminating with the end of the spring by a radial wall, extending to the true circumference of the arbor.

The object is to so shape the arbor that the spring end will not form an abrupt projection for the first coil of the spring to wind over, which produces an extra strain and bend at that point, and weakens it so that it breaks; moreover, causing an irregular action of the watch, which it is desirable to avoid.

The drawing is a plan view of the barrel and mainspring, showing my improvements.

A represents the hub or collar of the arbor

of the barrel; B, the mainspring, and C the eccentric notch in the face of the collar, in which the end of the spring is fastened, so that its outer side is flush with the circumference of the collar at the end of the notch, and from the end of the eccentric curve of the bottom of the notch is so gradual that the injurious effects produced by connecting the spring on the face of the hub without a notch are wholly avoided.

The invention is also applicable to the connection of clock-springs to the arbors.

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

A watch-barrel arbor or collar having an eccentric notch in its face for receiving and securing the inner end of the mainspring, substantially as herein described, and for the purpose set forth.

JAMES C. EDWARDS.

Witnesses:

P. R. BURHAM,
T. G. RICH, Jr.