

J. B. Strickland,

Adjustable Cam.

N^o 64,922.

Patented May 21, 1867.

Fig: 1

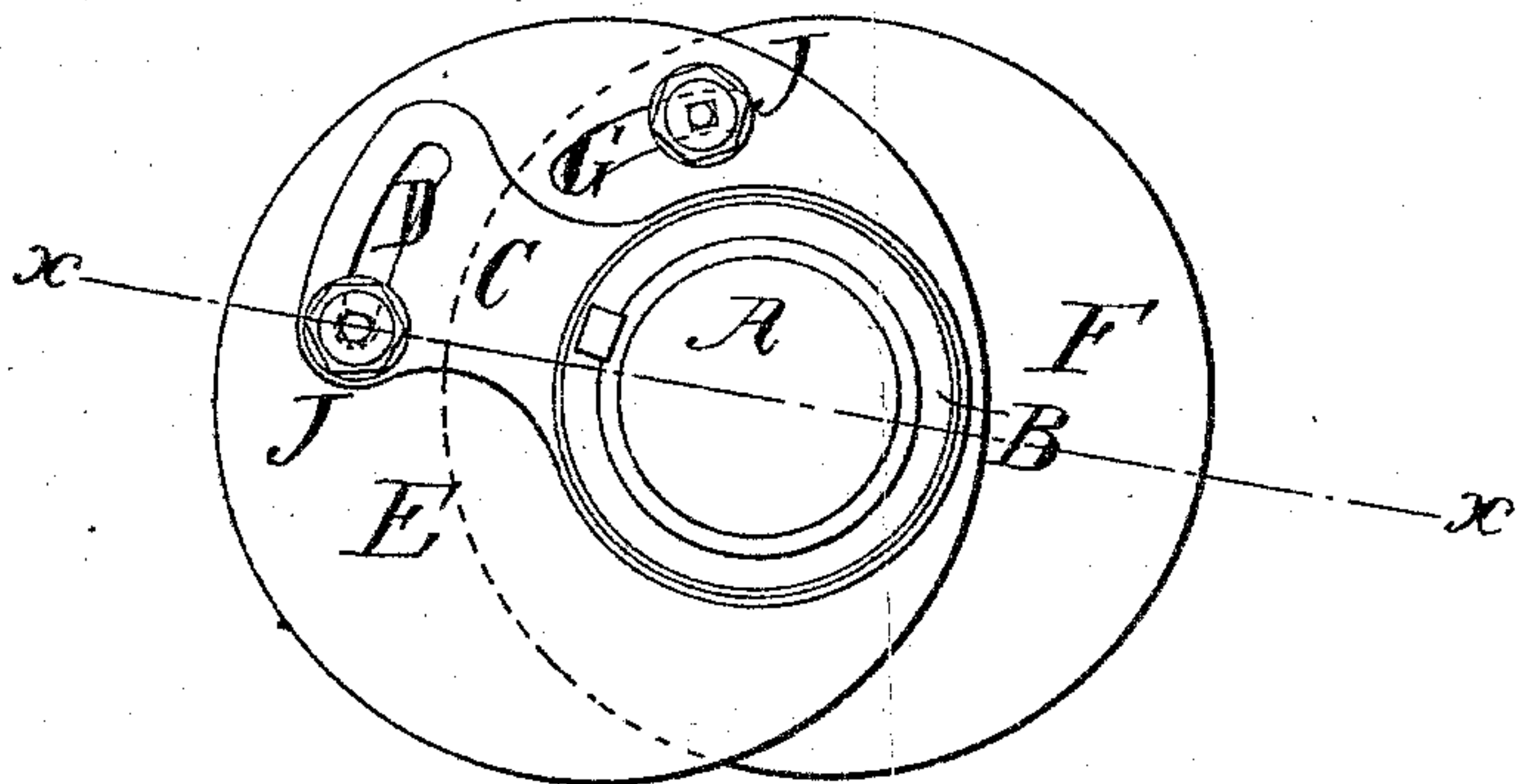
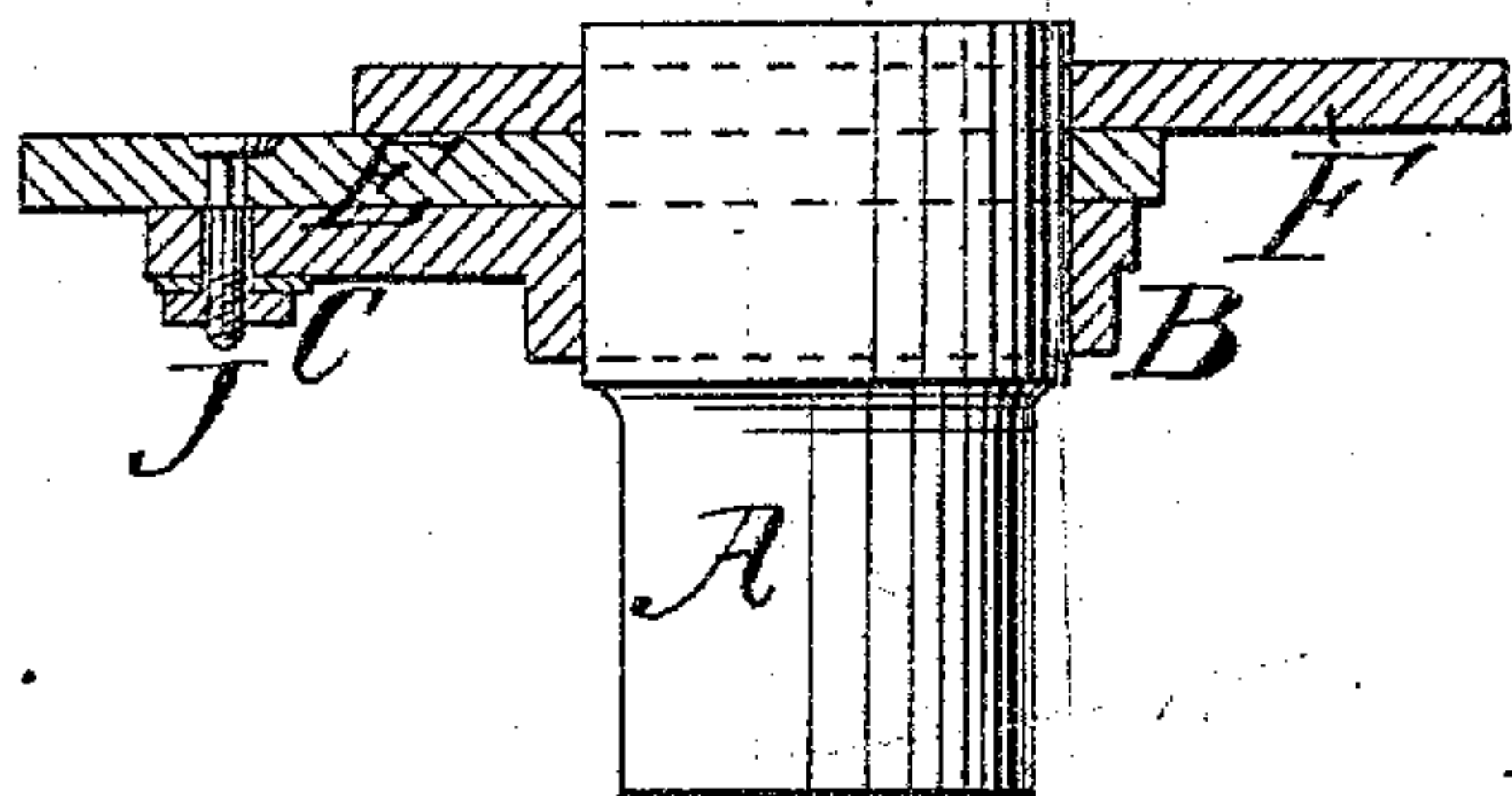


Fig: 2.



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United States Patent Office.

JAMES B. STRICKLAND, OF SCRANTON, PENNSYLVANIA.

Letters Patent No. 64,922, dated May 21, 1867.

IMPROVEMENT IN ADJUSTABLE ECCENTRIC.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES B. STRICKLAND, of Scranton, in the county of Luzerne, and State of Pennsylvania, have invented a new and improved Adjustable Eccentric; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This improvement relates to the manner in which an eccentric is secured to the shaft or axle of a locomotive or other engine, and to the manner in which it may be changed to suit the lead of the engine-valve. And the invention consists in attaching to the axle a collar with a projecting arm, which arm has a curved slot through it, as will be hereinafter more fully described.

Figure 1 represents a side view showing the collar and arm and two eccentrics on the axle.

Figure 2 is an edge view of the same, it being a section through the line *xx* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the shaft or axle; B is the collar; and C is the arm on the collar; D is a curved slot through the arm; E is one of the eccentrics which is held in place directly by the arm C; F is the other eccentric, which is held in place by E; G is a curved slot through the eccentric E. The collar B is fitted on to the axle, and fastened against a shoulder by a key. The projecting arm C, which is one piece with the collar, has a curved slot through it, the curve being a circle, whose centre is the centre of the axle. The eccentric E is fastened to the arm by a bolt, whose head is countersunk flush with the opposite side of the eccentric, and which passes through the slot with a nut on the end which bears against the arm. The eccentrics are both plain disks of metal fitted on to the axle but allowed to turn upon it whenever it is desired to move or alter them. There is also a curved slot through the eccentric E, and the other eccentric is fastened to E in the same manner that E is fastened to the arm. J represents the bolts by which both eccentrics are fastened, and in the sectional view the manner in which the head is countersunk is plainly shown. It will be understood from what has been said that the eccentric-plates E and F can be moved or adjusted as may be desired or to the extent of the slot, and that they can be held in position by the bolts, as before described.

The advantages of this arrangement are many, and must be obvious to all who are acquainted with the steam engine.

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

The combination and arrangement of the collar and arm B C, and the eccentrics E F, substantially as herein shown and described for the purposes set forth.

JAMES B. STRICKLAND.

Witnesses:

STEPHEN JONES,
JOSEPH BAIRD.