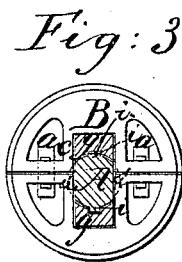
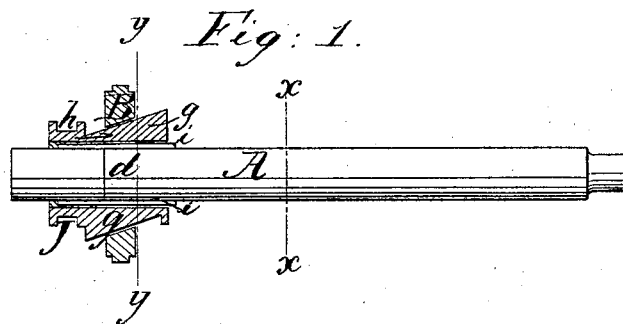


D. F. Walker,
Adjustable Cam.

N^o 46,737.

Patented Mar. 7, 1865



Witnesses;
Wm. Brown
Geo. Lusk

Inventor;
D. F. Walker
Per. Munn & Co.
Attys.

UNITED STATES PATENT OFFICE.

D. F. WALKER, OF BOWLING GREEN, KENTUCKY.

IMPROVED ADJUSTABLE ECCENTRIC.

Specification forming part of Letters Patent No. 46,737, dated March 7, 1865.

To all whom it may concern:

Be it known that I, D. F. WALKER, of Bowling Green, in the county of Warren and State of Kentucky, 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 others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a longitudinal central section of this invention. Fig. 2 is a transverse vertical section of the same, the line *xx*, Fig. 1, indicating the plane of section, and looking in the direction of the arrow marked opposite to that line. Fig. 3 is a similar section taken in the plane indicated by the line *yy*, Fig. 1.

Similar letters of reference indicate like parts.

This invention consists in the use of a grooved sleeve provided with two wedge-shaped projections and made to slide in a longitudinal direction on the shaft which carries the eccentric disk, said wedge-shaped projections being made to operate in combination with the eccentric disk in such a manner that by shifting the sleeve on the shaft the eccentricity or throw of the eccentric can be regulated at pleasure without stopping or interrupting the motion of the shaft on which the eccentric is mounted, or that of the eccentric itself.

A represents a shaft, on which the eccentric disk B is mounted. This disk, instead of being made solid out of one piece, is made of two parts, which are firmly connected by straps *a* and keys *b*, as shown in the drawings, or in any other suitable manner. Each half of the disk B is provided with recess of such a shape that when the two halves are fastened together an oblong rectangular slot, *c*, is formed, the short sides of which are smaller than the diameter of the shaft.

In order to secure the disk to the shaft, notches *d* are fitted into the latter, one opposite the other, as clearly shown in Fig. 3,

and just wide and deep enough to correspond to the thickness of the disk and to the width of the slot *c*. If the two halves of the disk are slipped into the notches *d* from opposite sides, and then connected, said disk can be moved in a direction transversely to the longitudinal center of the shaft, but it is not allowed to move in a direction parallel with said longitudinal center or with the side of the shaft.

The disk B is held in the desired position by two wedges, *g*, which pass through the slot *c*, and which incline in opposite directions, as clearly shown in Fig. 1 of the drawings. Said wedges extend from a sleeve, *h*, to which one of them is connected with its thick end and the other with its thin end, and feathers or keys *i*, secured in the shaft and working in grooves in the sleeve and wedges prevent the latter from turning independent of the shaft.

The sleeve *h* is furnished with a circular notch, *j*, to receive the forked end of a lever or other suitable device, by means of which the same, together with the wedges *g*, can be moved back and forth on the shaft. By moving the sleeve in the direction of the arrow marked on it in Fig. 1 the eccentric is depressed, and by moving it in the opposite direction the eccentric is raised, and it will be readily understood that by these means the throw of the eccentric can be regulated with the greatest nicety and without stopping the motion of the shaft.

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

The sleeve *h*, provided with wedges *g*, inclined in opposite directions and fitted to the shaft A by feathers *i*, in combination with the disk B, furnished with an oblong slot, *c*, and fitted to the shaft by notches *d*, all constructed and operating substantially as and for the purpose set forth.

D. F. WALKER.

Witnesses:

JAMES S. LEDMAN,
GEO. M. FOUGHT.