(No Model.)

A. PAUL.

Adjustable Scroll.

No. 231,188. Patented Aug. 17, 1880.

Fig. 1

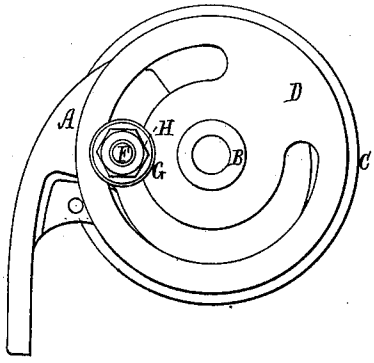


Fig. 2.

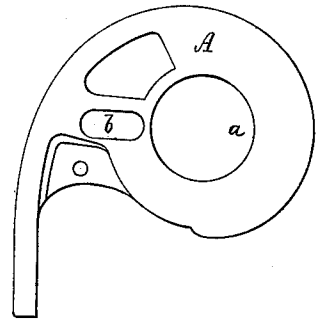


Fig. 7.

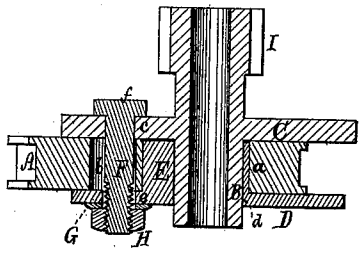


Fig. 3.

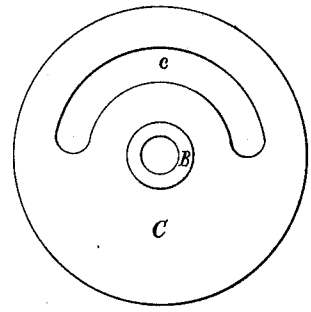


Fig. 4.

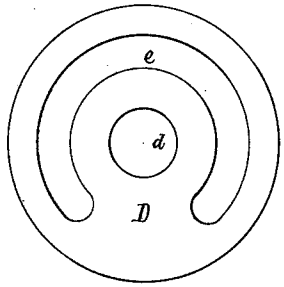
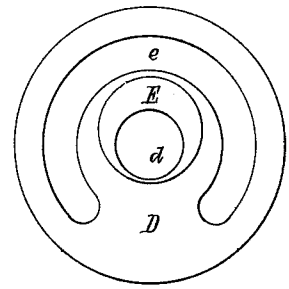


Fig. 6.



Fig. 5.



Witnesses.
S. N. Pipp
Wm. W. Lant

Inventor.
Amos Paul.
by attorney.
R. H. Eddy

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AMOS PAUL, OF SOUTH NEW MARKET, NEW HAMPSHIRE.

ADJUSTABLE SCROLL.

SPECIFICATION forming part of Letters Patent No. 231,188, dated August 17, 1880.

Application filed July 3, 1880. (No model.)

To all whom it may concern:

Be it known that I, AMOS PAUL, of South New Market, of the county of Rockingham and State of New Hampshire, have invented a new and useful Improvement in Adjustable Scrolls for Machinery; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is an elevation of a scroll and its shaft or arbor provided with my invention or mechanism for effecting adjustment of the scroll relatively to the shaft or arbor. Fig. 2 is a side view of the scroll. Fig. 3 is a side view of the disk that is permanently fixed to the arbor. Fig. 4 is an outer-side view, Fig. 5 an inner-side view, and Fig. 6 a transverse section, of the other slotted disk and its eccentric. Fig. 7 is a transverse section of the scroll and its appliances, the plane of section being through the clamping-screw and nut, to be hereinafter described.

The nature of my invention is fully set forth in the claim hereinafter presented.

The "scroll," as it is usually termed, is used in various machines, and usually has a chain fixed to its periphery and to wind thereon, the use of a scroll being well understood by mechanicians.

In the drawings, A denotes the scroll as provided with a cylindrical eye, *a*, having a diameter larger than that of the arbor B, extending through such eye. Besides the said eye there is in the scroll a slot, *b*, arranged radially to the eye, as represented.

The scroll is placed against a disk, C, which is fixed concentrically to and upon the arbor, and has arranged in it, as shown, an arcal slot, *c*.

Against the outer face of the scroll is another disk, D, adapted to revolve on the arbor, the cylindrical eye *d* of the disk having a diameter corresponding, or about so, to that of the arbor. Concentric with the eye *d* there is in the disk D an arcal slot, *e*, and there projects from the rear side of the disk D an eccentric, E, whose eye is a prolongation of that of the disk, the eccentric being a cylinder having a diameter corresponding to that of the eye of the scroll into which the said eccentric projects. The eccentric is not concentric with its eye, but has its periphery eccentric relatively thereto, as shown, the eccentric being with the disk D on the arbor.

There extends through the arcal slots of the disks C and D and the radial slot *b* of the scroll a clamp-screw, F, provided at one end of it with a head, *f*. On this screw are a washer, G, and a nut, H, all being arranged as shown.

By turning the disk D on the arbor the scroll will be adjusted more or less eccentric to the arbor. So by revolving the scroll on the eccentric the position of the scroll may be otherwise adjusted relatively to the arbor, the clamp-screw and nut serving to hold the parts in engagement and from moving out of place after any desired adjustment of the scroll may have been accomplished.

The arbor is represented as tubular and provided with an operative gear, I, although it may be without any bore or such a gear.

I claim as my invention—

The combination consisting of the following elements, viz: the scroll A, provided with the eye *a* and slot *b*, the arbor B, the disk C, provided with the arcal slot *c* and fixed to the arbor, the disk D, provided with the arcal slot *e* and the eccentric E and the eye *d*, the clamping-screw F, and nut H, all arranged and to operate substantially as set forth.

AMOS PAUL.

Witnesses:
R. H. EDDY,
WM. W. LUNT.