

DAVID SHIVELY.

Improvement in Devices for Changing Rotary into Reciprocal Motion.

No. 127,196.

Patented May 28, 1872.

Fig. 1.

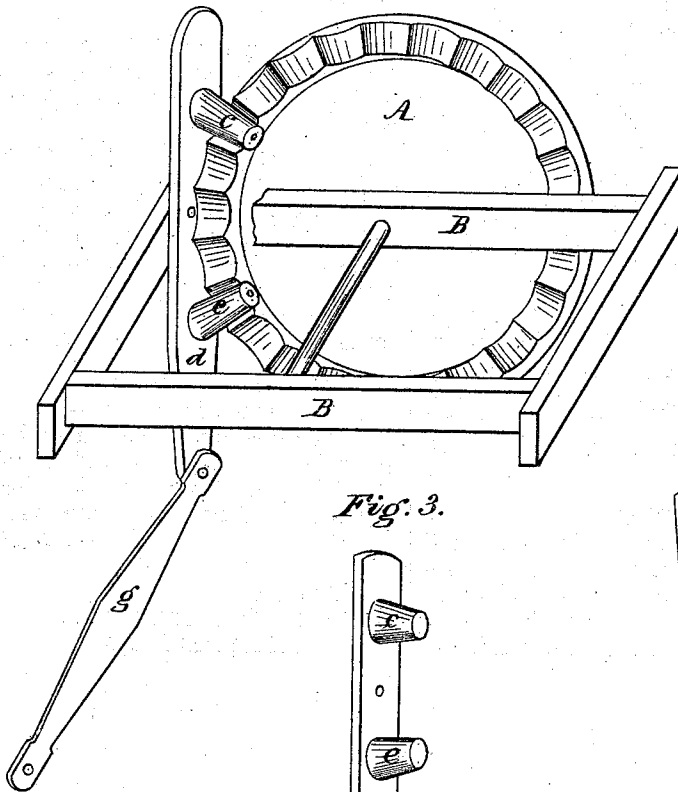


Fig. 2.

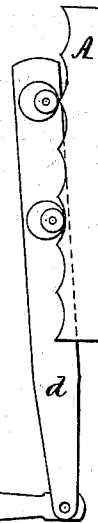
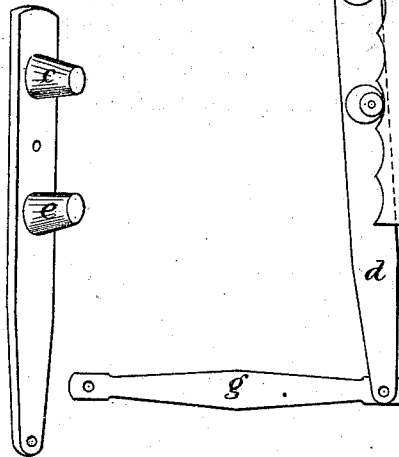


Fig. 3.



WITNESSES.

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IMPROVEMENT IN DEVICES FOR CHANGING ROTARY INTO RECIPROCAL MOTION.

Specification forming part of Letters Patent No. 127,196, dated May 28, 1872; antedated May 17, 1872.

SPECIFICATION.

I, DAVID SHIVELY, of Bayard, in the county of Columbiana and State of Ohio, have invented certain Improvements in Device for Changing Rotary into Reciprocal Motion, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to the changing of rotary into reciprocal motion in such a manner that a slow rotary motion will impart a rapid reciprocal motion without the diminution of power necessary in some other devices for the same purpose.

Description of the Accompanying Drawing.

Figure 1 is a full view of the invention, showing all its working parts arranged in order for operation. Fig. 2 is a side view of the wheel A and lever *d* with its rollers *c* and *e*. Fig. 3 is a view of the lever *e* with its rollers *c* and *e*.

General Description.

A is the driving-wheel, with elevations and depressions, over which the rollers *c* and *e* revolve when the said driving-wheel is put in motion. *d* is a lever provided with rollers *c* and *e*, to which a reciprocating motion is im-

parted by the revolving of the driving-wheel A. *c* and *e* are rollers connected with the lever *d*, which follow the elevations and depressions of the wheel A. B is the frame to which the working parts are attached. *g* is a shaft connecting the lever *d* with anything to which it is desired to impart reciprocal motion.

Operation of the Invention.

The operation of my invention may be described as follows: When a rotary motion is given the wheel A, the rollers *c* and *e* follow the elevations and depressions of the said wheel A and thus impart to the lever *d* a reciprocal motion, which is communicated to anything desired, through the connecting-shaft *g*.

Claim.

I claim as my invention—

1. The combination of the wheel A, as described, with the lever *d* and the rollers *c* and *e*.
2. The combination of the wheel A, the lever *d*, the rollers *c* and *e*, and the shaft *g*.

DAVID SHIVELY.

Witnesses:

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