

(No Model.)

J. HUNT.

APPARATUS FOR TRANSMITTING MOTION.

No. 493,589.

Patented Mar. 14, 1893.

Fig. 1

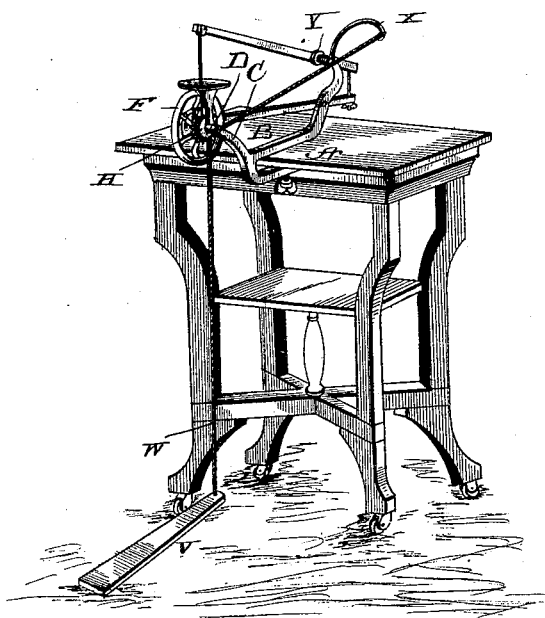


Fig. 2.

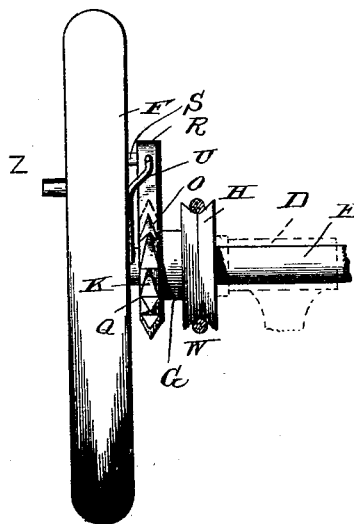


Fig. 3.

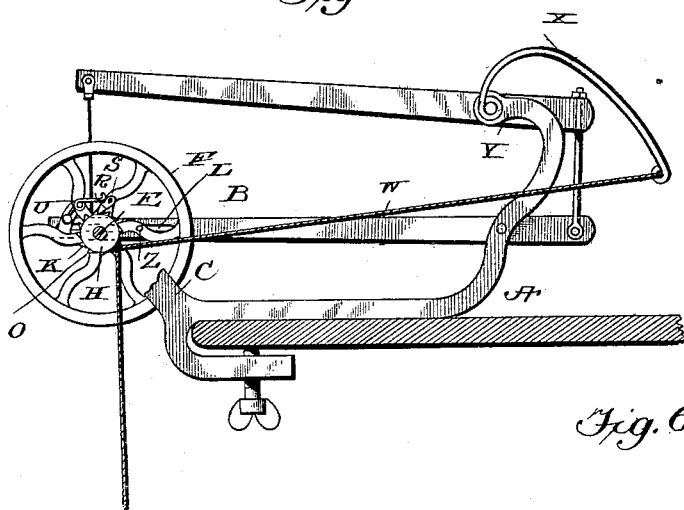


Fig. 4. Fig. 5.

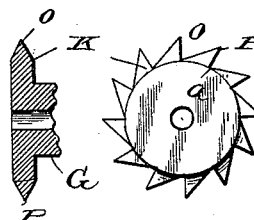
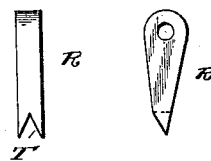


Fig. 7.

Fig. 6



Witnesses

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JOHN HUNT, OF BELOIT, WISCONSIN.

APPARATUS FOR TRANSMITTING MOTION.

SPECIFICATION forming part of Letters Patent No. 493,589, dated March 14, 1893.

Application filed June 2, 1892. Serial No. 435,233. (No model.)

To all whom it may concern.

Be it known that I, JOHN HUNT, of Beloit, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Apparatus for Transmitting Motion; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to apparatus for transmitting motion, such means being more especially applicable to small machines where rapid motion is required, as scroll-saws, drills, &c., and my invention resides in the novel arrangement, construction and combination of parts hereinafter specified and set forth in the claims.

I shall, for the sake of illustration, describe my improved apparatus in connection with a scroll-saw.

In the accompanying drawings, Figure 1 is a perspective view of the apparatus in use with a scroll-saw. Fig. 2 is a front elevation of the rotating parts. Fig. 3 is a side elevation of the same. Figs. 4 and 5 are sectional and side views of the ratchet wheel, and Figs. 6 and 7 are similar views of the pawl.

A represents the frame-work supporting a scroll saw B, adapted to be adjustably secured to an ordinary table.

Rising from the frame A is the oblique standard C, carrying a bearing D in which is journaled the axle E. Secured to this axle is the fly-wheel F, and rotating loosely thereon is the sleeve G having integral therewith the grooved wheel or driving pulley H, and ratchet wheel K. The teeth O of the ratchet wheel have triangular driving faces P, being ridged on their lifting faces Q. The pawl R is carried on a wrist S on the fly wheel and has a forked bearing end T to correspond with the bevel of the lifting faces Q. The pawl is kept pressed against the ratchet wheel by a spring U secured to the fly wheel. Power is supplied

from a treadle V by a cord W which passes round the grooved wheel, and is attached to the end of a C-spring X, the other end of which spring is coiled round a wrist at the end of the arm Y of the frame. Power is communicated from the fly wheel to the saw by a roller Z carried by the fly wheel which works in a slot L in the saw frame.

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

1. The combination of a fly-wheel, with a driving pulley and a ratchet wheel secured to each other on the axle of the fly wheel, a spring-pressed pawl carried by the fly wheel said pawl having a forked end and adapted to engage the ratchet wheel, a cord or rope round the pulley, one end whereof is secured to a reciprocating lever or treadle, and the other is secured to the end of a C-spring, substantially as described.

2. The combination of a frame, said frame carrying a journal bearing a shaft in said bearing a fly wheel, said fly wheel carrying a roller adapted to engage the device driven, a driving pulley and a ratchet wheel secured to each other on the axle of the fly wheel, a spring pressed pawl carried by the fly wheel said pawl having a forked end and adapted to engage the teeth of the ratchet wheel, a C-spring, a cord or rope round the pulley, one end whereof is secured to a reciprocating lever or treadle, and the other secured to the end of the C-spring, the other end of said spring being coiled round a wrist on an arm of the frame, substantially as and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN HUNT.

Witnesses:

R. J. BURDGE,
C. E. TASKER.