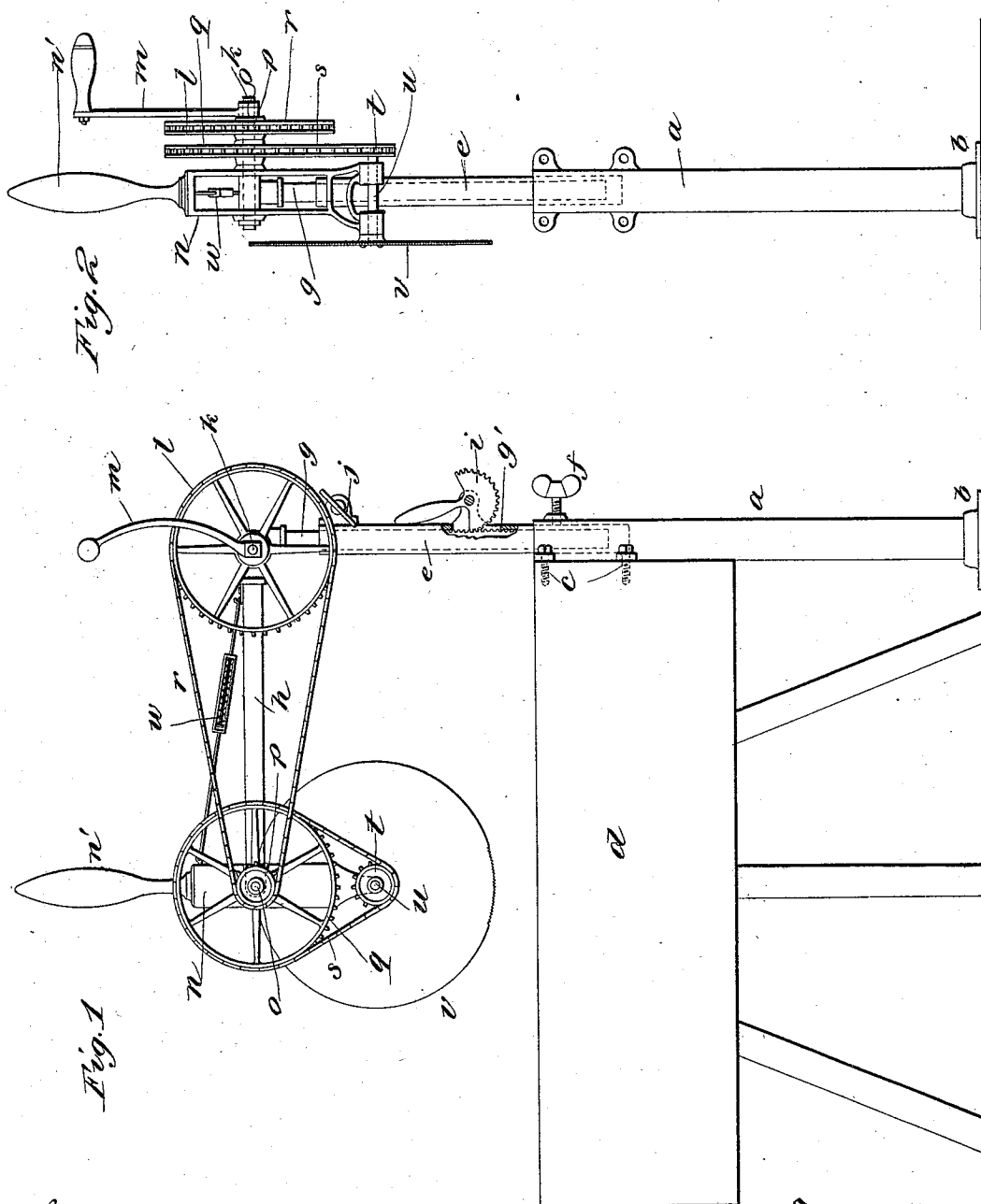


(No Model.)

J. MARSHALL.
SWINGING SAW FOR SAWING MEATS, &c.

No. 555,649.

Patented Mar. 3, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN MARSHALL, OF MANSFIELD, OHIO.

SWINGING SAW FOR SAWING MEATS, &c.

SPECIFICATION forming part of Letters Patent No. 555,649, dated March 3, 1896.

Application filed May 11, 1895. Serial No. 548,978. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARSHALL, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have invented a certain new and useful Improvement in Swinging Saws for Sawing Meats, &c., of which the following is a full, clear, and exact description.

The object of this invention is to provide a substitute for the ordinary reciprocating saw used by butchers and others in sawing meat-bones; and the invention consists in a rotary circular saw mounted to be driven by hand or other power in the manner hereinafter particularly described and claimed, and capable of being erected alongside the ordinary chopping-block, counter, or other fixture.

In the accompanying drawings, illustrating my invention, in the several figures of which like parts are similarly designated, Figure 1 is a side elevation showing the apparatus erected alongside a chopping-block. Fig. 2 is a front elevation of the apparatus detached.

A tubular standard *a*, having a foot *b* by which it may be fastened to the floor, is adapted to be fastened by screws *c* to a chopping-block or other fixture *d*. This standard has telescoped within it a tubular socket *e*, held therein against rotation by a set-screw *f*, and within this socket is arranged the upright arm *g*, which, with its rigidly-connected arm *h*, constitutes a crane. The arm *g* is provided with a toothed rack *g'*, which is engaged by a toothed-segment lever *i* pivoted to the socket, whereby said crane may be adjusted vertically at pleasure, the adjustment being fixed by a thumb-screw *j* applied to it and the socket. The crane has a laterally-projecting stud *k*, upon which is mounted the sprocket-wheel *l* and the crank-handle *m* for rotating such wheel. On the outer front end of arm *h* is hung a swinging yoke *n*, having the operating-handle *n'*. On the pin *o*, by which the yoke is hung or pivoted to arm *h*, are fixed the two sprocket-wheels *p* and *q*, the former receiving the sprocket-chain *r* from the wheel *l* and the latter receiving a sprocket-chain *s*, which passes about a sprocket-wheel

t on an arbor *u*, arranged in bearings in the end of the yoke *n*. This arbor *u* has mounted upon it the circular saw *v*, rotary motion to which is imparted from the hand-crank by the train of sprocket-gearing described or by other gearing.

w is a spring connected at one end to the yoke and at the other to the crane, and serving normally to raise the saw.

By the use of the swinging and vertically-adjustable crane, it is obvious that the saw may be arranged to cut as desired, and by the use of the swinging yoke it is possible to put any desired pressure upon the saw and cause it to follow the cut into the meat or bone.

Now, while I have designed by my invention to provide retail butchers with a convenient and labor-saving saw, I wish it to be understood that the invention is applicable to sawing other objects than meat, bones, &c. Moreover, I have herein described the principle of my invention as illustrated in the best mode in which I have contemplated applying that principle, but wish to be understood as not limiting my invention otherwise than as hereinafter claimed.

It is to be noted that in Fig. 1 only a portion of the edge of the saw *v* is shown as toothed; but it is to be understood that the invention is not limited to the kind of rotary saw employed.

What I claim is—

1. The combination of a standard, a crane secured upon the same and having a swinging motion thereon, a yoke pivoted to the free end of said crane, a circular saw mounted in the lower end of said yoke, a spring applied to the said yoke and normally elevating it and the saw, and gearing for rotating the said saw, substantially as described.

2. The combination of a standard, a crane telescopically and axially adjustable therein, a yoke pivoted to the free end of said crane, a circular saw mounted in the lower end of said yoke, a spring applied to the said yoke and normally elevating it and the saw, and gearing for imparting rotary motion to the saw, substantially as described.

3. The combination of a standard, a crane
secured upon the same and having a swinging
motion thereon, a yoke pivoted to the free
end of said crane, a circular saw mounted in
5 the lower end of said yoke, a means applied
to the yoke normally to elevate it and the saw,
a motor medium and sprocket-gearing inter-
posed between the said motor medium and

saw for rotating the saw, substantially as de-
scribed.

In testimony whereof I have hereunto set
my hand this 9th day of May, A. D. 1895.

JOHN MARSHALL.

Witnesses:

SAML. MARRIOTT,
WILLIAM A. CULP.