

(No Model.)

W. P. SCOFIELD.

LOG SETTING APPARATUS FOR SAW MILLS.

No. 269,123.

Patented Dec. 12, 1882.

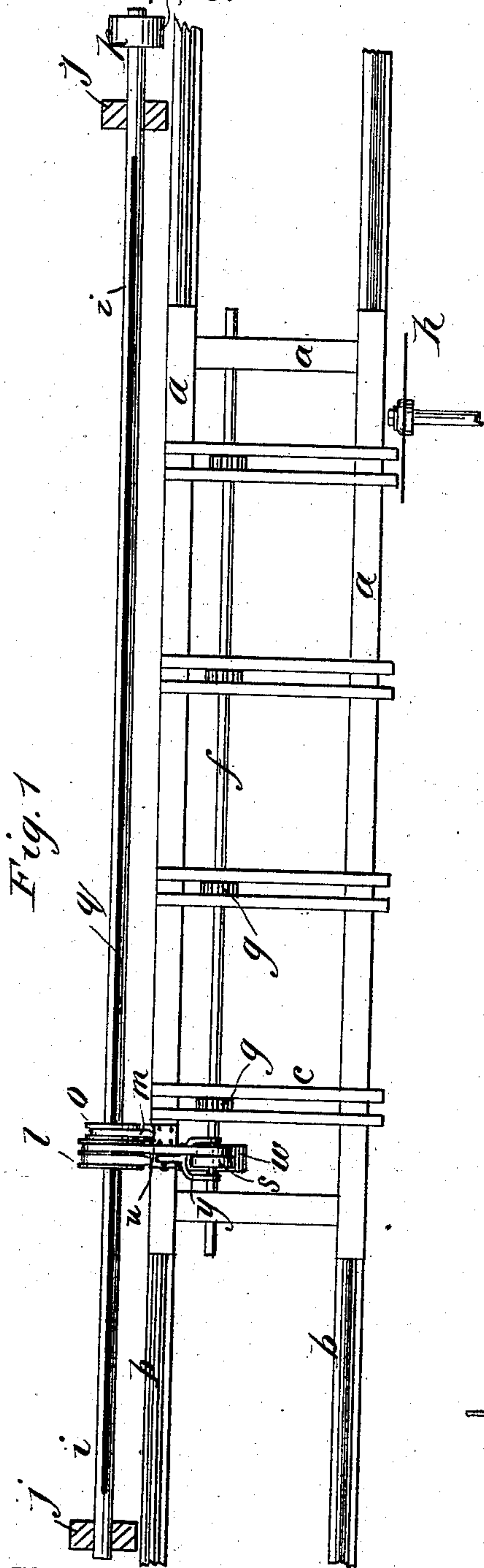


Fig. 1

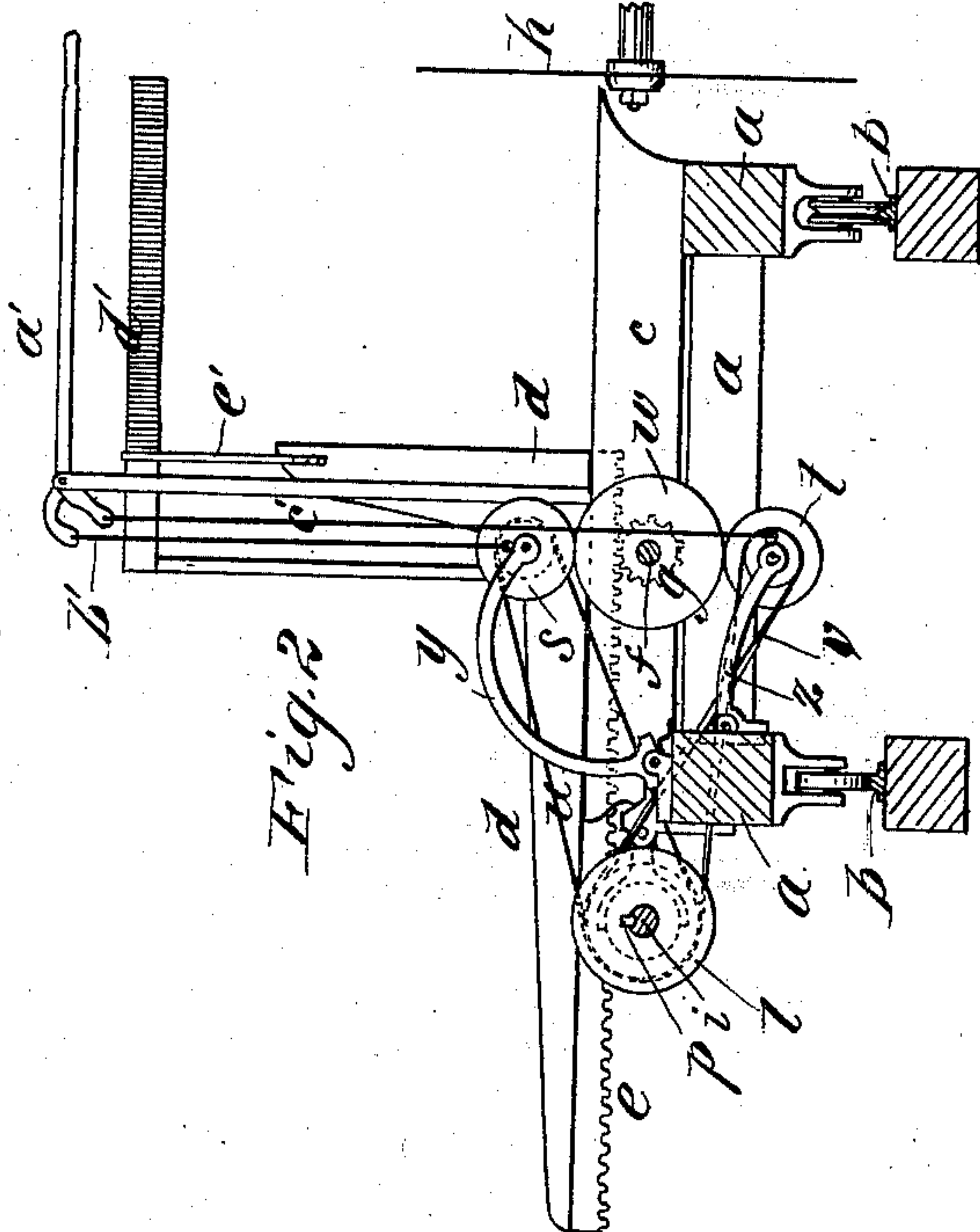


Fig. 2

Fig. 3

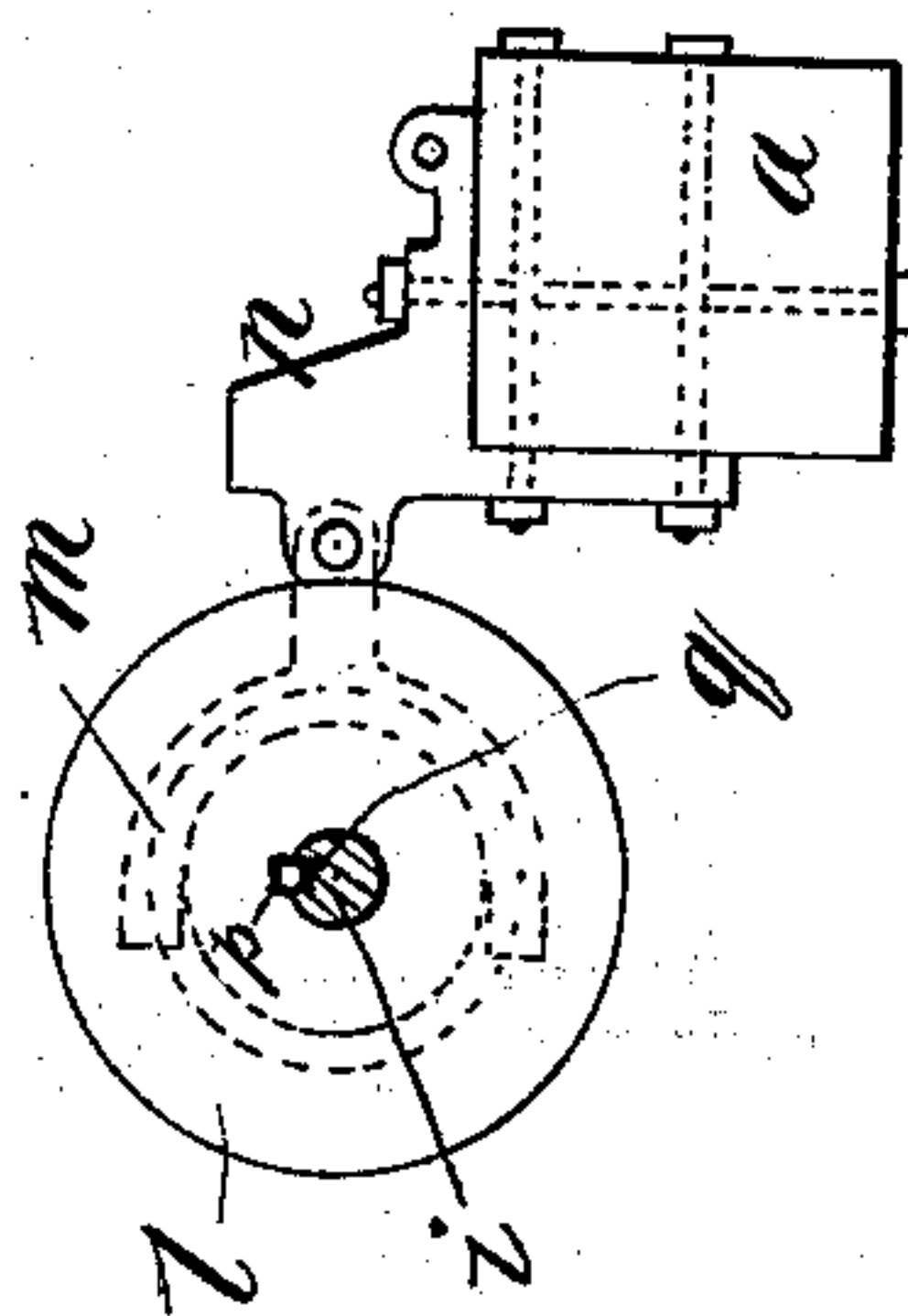
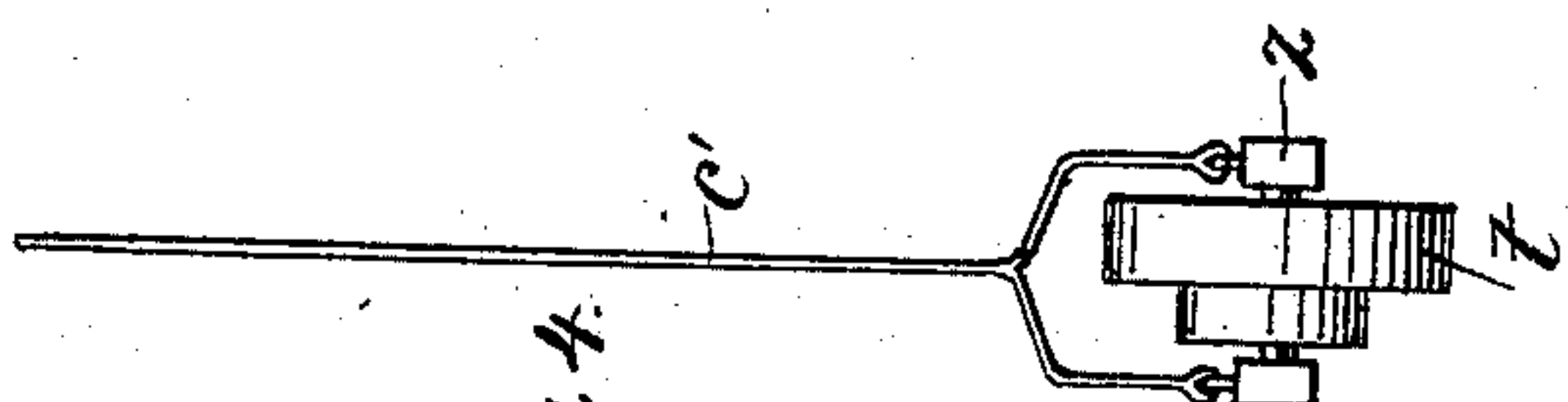


Fig. 4



WITNESSES:

Donn Twitchell.
C. Sedgwick

INVENTOR:

W. P. Scofield
BY
Mum & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WALTER P. SCOFIELD, OF CEDAR KEYS, FLORIDA.

LOG-SETTING APPARATUS FOR SAW-MILLS.

SPECIFICATION forming part of Letters Patent No. 269,123, dated December 12, 1882.

Application filed September 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, WALTER P. SCOFIELD, of Cedar Keys, in the county of Levy and State of Florida, have invented a new and Improved Log-Setting Apparatus for Saw-Mills, of which the following is a full, clear, and exact description.

My invention consists of apparatus by which the sawyer is enabled to gear the log-shifting devices of the carriage with a shaft located alongside of the carriage, so as to shift the same forward or backward at will, as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a log-carriage for circular-saw mills with my improvements applied to it. Fig. 2 is a transverse section of the carriage, track, and driving-shaft, and side elevation of the setting apparatus. Figs. 3 and 4 are details.

The carriage *a*, ways or tracks *b*, head-block *c*, sliding knees *d*, racks *e*, shaft *f*, and pinions *g* are of the ordinary or approved construction and arrangement.

To turn the shaft *f* and pinions *g* by power at the will of the sawyer for setting the log up to the saw *h* from time to time, and for shifting the knees back when a new log is to be put on, I arrange a long shaft, *i*, alongside of the carriage, at the back, in suitable bearings, *j*, to be continuously operated by a belt from any suitable driving-pulley and working on the pulley *k*. On this shaft I arrange the double pulley *l*, so as to slide along it as the carriage goes by means of a fork, *m*, attached to a bracket, *n*, on the carriage, and engaging the grooved hub *o*, the said pulley having a key or feather, *p*, running in the groove *q* of the shaft, for being duly rotated thereby for driving the friction-pulleys *s* and *t* by the belts *u* and *v*, the latter crossed for reversing the motion, said pulleys being mounted respectively above and below the friction-pulley *w* on the shaft *f* and in the arms

y and *z*, which are pivoted to the carriage and suspended from the hand-lever *a'* by rods *b'* and *c'*, so that by shifting the lever in one direction the wheel *s* will be made to drive wheel *w* in one direction, and by shifting it in the other direction wheel *t* will drive it the other way, while in the middle position both wheels *s* and *t* will be disconnected and wheel *w* will be inoperative.

A scale, *d'*, may be so located with reference to a pointer, *e'*, on the knee *d* as to gage the movements of the knees thus produced.

It will be seen that with apparatus of this kind the setting of the logs will be greatly simplified. At the same time it may be done accurately and quickly.

It may be preferred to employ the pulley *t* for turning shaft *f* in the direction for setting the log up to the saw, because it is best held forcibly in contact with the wheel *w* for the the greater friction required when shifting the log.

In practice a spring will be arranged under arm *y* to prevent the contact of wheels *s* and *w* when not in working contact.

I am aware that it is not broadly new to employ attachments to saw-mills whereby the log may be laterally shifted by power under the control of the sawyer; but

What I do claim as new and of my invention is—

The combination, with the carriage *a* and shaft *f*, of the shaft *i*, carrying the keyed and sliding double pulley *l* and the grooved hub *o*, the carriage-bracket *n*, having fork *m*, the friction-pulleys *s* *t* on pivoted arms of the carriage, the intermediate pulley, *w*, on shaft *f*, the belts *u* *v*, and the hand-lever *a'*, connected by rods *b'* with the pulleys *s* *t*, whereby the logs may be set up to the saw and the knees shifted, as described.

WALTER POMEROY SCOFIELD.

Witnesses:

JAS. M. JACKSON,
A. B. COULTER.