

(No Model.)

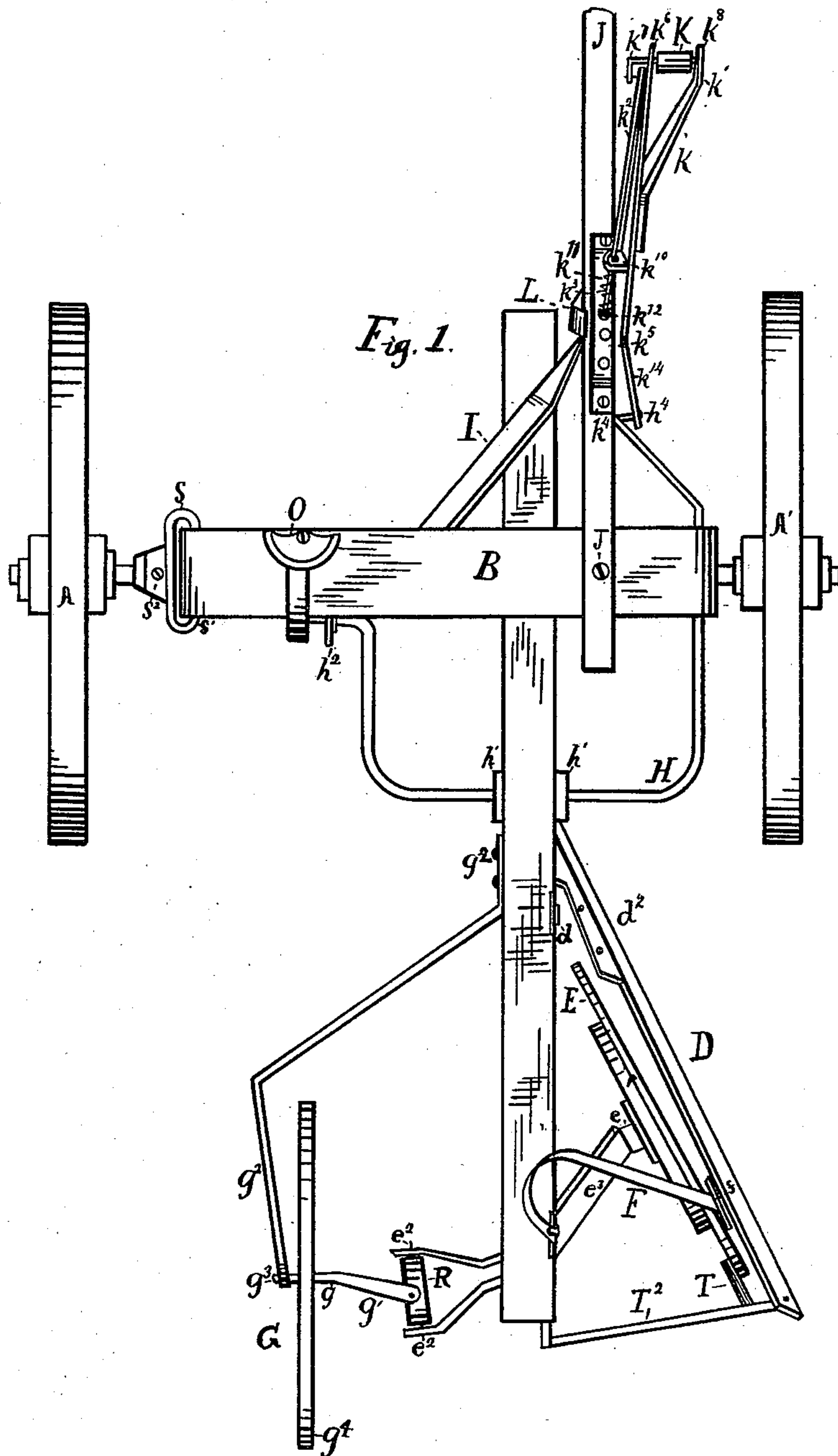
3 Sheets—Sheet 1.

S. H. TAYLOR.

SULKY ROTARY MOLD BOARD PLOW.

No. 300,658.

Patented June 17, 1884.



Witnesses.
C. A. Haseltine,
J. D. White

Inventor.
Samuel H. Taylor
By Seward A. Haseltine,
Attorney.

(No Model.)

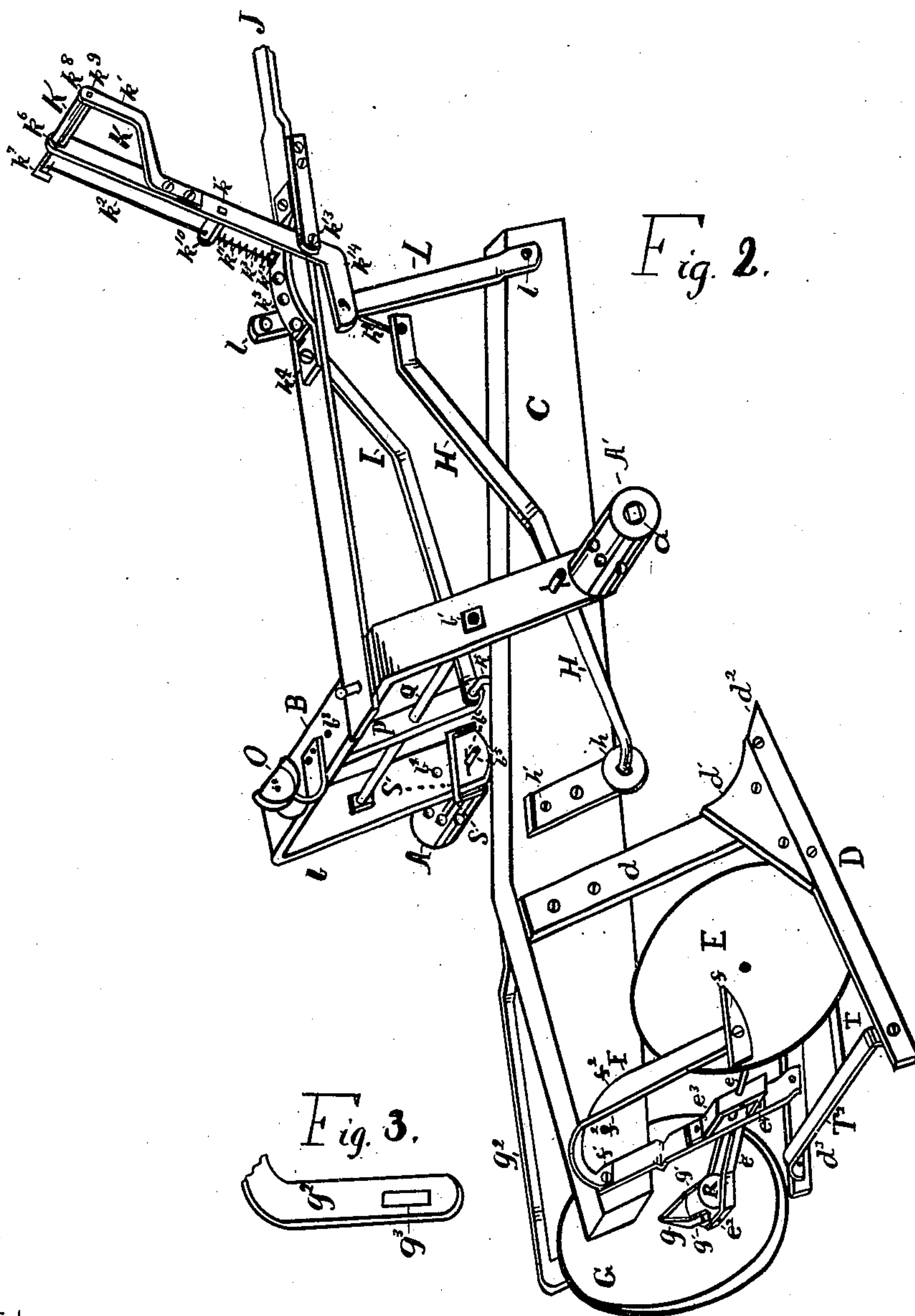
3 Sheets—Sheet 2.

S. H. TAYLOR.

SULKY ROTARY MOLD BOARD PLOW.

No. 300,658.

Patented June 17, 1884.



Witnesses.
G. A. Haseltine.
J. T. White.

Inventor.
Samuel H. Taylor
By Seward M. Haseltine
Attorney.

(No Model.)

3 Sheets—Sheet 3.

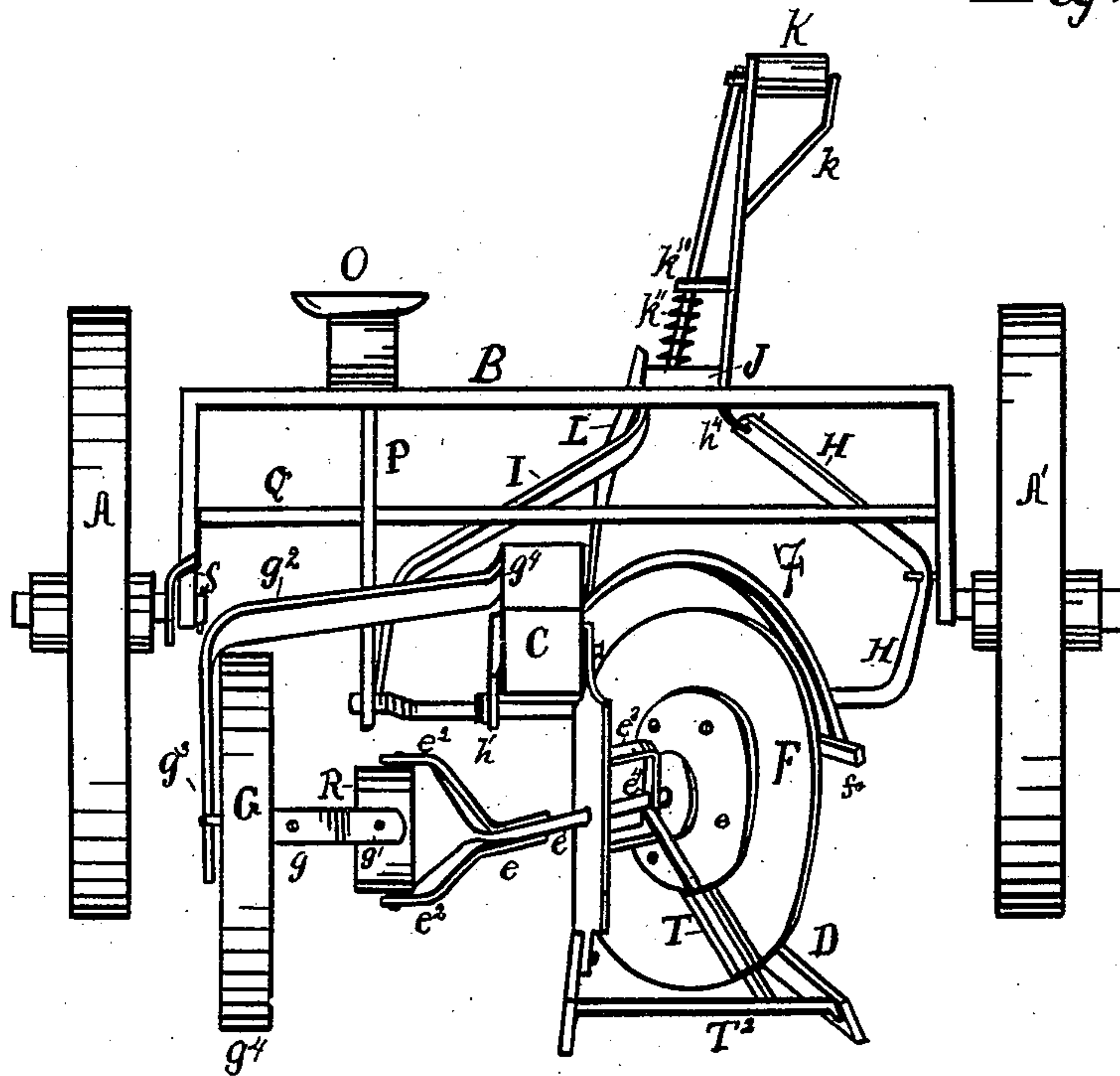
S. H. TAYLOR.

SULKY ROTARY MOLD BOARD PLOW.

No. 300,658.

Patented June 17, 1884.

Fig. 4



Witnesses.

G. A. Haseltine.

C. W. Thrasher

Inventor.

Samuel H. Taylor,
By Seward A. Haseltine,
Attorney.

UNITED STATES PATENT OFFICE.

SAMUEL H. TAYLOR, OF SPRINGFIELD, MISSOURI.

SULKY ROTARY MOLD-BOARD PLOW.

SPECIFICATION forming part of Letters Patent No. 300,658, dated June 17, 1884.

Application filed March 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL H. TAYLOR, a citizen of the United States, residing at Springfield, in the county of Greene and State of Missouri, have invented certain new and useful Improvements in Sulky Rotary Mold-Board Plows, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in sulky-plows having rotary mold-boards, the object of which is to provide an easy and convenient means of managing a plow, and also to provide a plow that will lessen the draft upon the team, and at the same time do good effective work in any soil, and especially constructed for plowing the sticky loam of Texas. These objects I attain by means of the device illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top or plan view of the entire device. Fig. 2 is a view in elevation with the rims of the wheels removed. Fig. 3 is a detailed view. Fig. 4 is a perspective view from behind.

A A' represent wheels having suitable bearings. Those of A' are adjustable in height on the perpendicular end *b* of the raised axle B by means of holes *b*⁴, tenon *b*⁵, and pin *b*⁶, or other suitable locking device. A support, S, is attached by a bolt, S² or other equivalent device, and extends upward encircling the vertical axle arm *b* by a piece, S', thus firmly holding the bearing. The raised axle is strengthened by a rod, Q, which is beneath and attached at each end in the perpendiculars *b b'*, and passes through a pendent piece, P, said piece serving as a support to the rods H I, thus permitting the elevated axle to be made strong and of any desired length. O is a spring-seat, J a tongue, C a plow-beam, D a plowshare, and E a revolving disk or mold-board.

K is a spring-ratchet having a hand-piece, *k*, through which passes a bolt, *k*⁹, having bearings *k*⁶ *k*⁸ in the fork of the main lever *k*. One end of the said bolt is made with a crank, *k*⁷, having suitable bearings for a rod, *k*², said rod passing through a piece, *k*¹⁰, and a spiral spring, *k*¹¹, and has a stay-nut or other suitable device, *k*¹², to hold the spring on the rod while the lower end is made to enter the holes *k*⁵ of a piece, *k*⁴, which is attached to the tongue.

The lever *k* is bent, forming an arm, *k*¹⁴, and has bearings *k*¹³, and an attachment to the rod H at *k*⁴.

L is an adjustable stay-rod, made with holes *l*, to regulate the level of the plow to the size of the team by means of a bolt in the said holes and tongue, and said support also holds the front end of the plow down while the back part is raised by means of the ratchet-lever.

F is a spring-scraper having a knife, *f*, and passing up over the rolling mold-board, E, forming a spring-bow, *f*², and attached at *f* to the plow-beam. The spring-bow *f*² gives in case of gravel or other obstacles, and thereby prevents breaking the knife or stopping the mold-board. I provide a roller or sleeved arm, T, which is attached upon a cross-support, T², of the bottom of the plow. Said sleeve extends upward and forward in a line with a radius of the disk or revolving mold-board, and may be made of any desired length and size to support and strengthen the lower back edge of the mold-board, where the greater part of the strain comes, and thereby also lessens the friction in the axle-bearings of the said disk. I also attach an auxiliary wheel, G, to the axle of said disk by means of a suitable angular joint connecting the axles of the disk and wheel, preferably formed by a round block, R, to which the ends of the axles *g e* are attached at right angles by means of forks *g' e'*, to receive the said block. A frame, *e*³, is provided with suitable bearings, *e*⁴ *e'*, to strengthen and steady the axle of the disk. Wheel G has suitable bearings in a slot, *g*³, of the arm *g*², which is attached to the plow-beam, so as to cause the wheel to run on the land-side in a line parallel with the line of the furrow, the boxes in said slot *g*³ being so attached as to slide up and down, permitting the bearings of the auxiliary wheel to be self-adjustable. This auxiliary or drive wheel may be made of sufficient weight to drive the disk in any soil; but it is preferably made with teeth *g*⁴, to give it more force. This device can be used for a right or left hand plow, as desired. It is operated thus: The bottom of the wheel A' is placed in the furrow, so that it will be on a level with the bottom of the plowshare, the bearing of the other wheel being adjustable in height to level and regulate the depth of the plow. The ratchet-lever is operated

by clasp-
ing the piece k and twisting it as the
lever is pushed or pulled to the desired hole,
and then releasing the same, when the lower
end of the spring ratchet-rod k^2 drops into the
5 hole and holds it firm. By this ratchet-lever
and the rod H, which is supported by rods I
and L, and having attachments $h^4 h^3 h h^5$, the
back part of the plow is easily raised. The
spring-knife F keeps the disk clean, while the
10 auxiliary wheel, assisted by the roller, keeps
it constantly revolving.

Having thus described the construction, use,
and operation of my invention, what I claim
as new, and desire to secure by Letters Pat-
15 ent, is—

1. The combination of a revolving mold-
board in a plow with a sleeved support, T, an
auxiliary wheel, G, and a continuous revolv-
ing axle having an angular joint, substantially
20 as and for the purpose set forth.

2. In a plow, the combination of a beam
with a share, a revolving mold-board having
an axle which has bearings $e' e^4$ in a frame, e^3 ,

and an auxiliary wheel, G, having its axle
connected by an angular joint with the axle 25
of the said mold-board, all substantially as
shown and described.

3. An auxiliary wheel, G, combined with a
revolving mold-board, E, the axles of which,
 $g e$, are forked, $g' g' e^2 e^2$, and secured to a 30
block, R, substantially as shown and described,
for the purpose set forth.

4. A spring ratchet-lever, K, composed of
a handle-piece, k , in which is attached a
cranked bolt, k^9 , having bearings $k^6 k^7 k^8$, a 35
forked lever, k' , having a spring ratchet-rod,
 k^2 , the lower end of which enters holes k^5 , and
an arm, k^{14} , substantially as shown and de-
scribed.

In testimony whereof I affix my signature in 40
presence of two witnesses.

SAMUEL H. TAYLOR.

Witnesses:

SEWARD A. HASELTINE,
J. T. WHITE.