

(No Model.)

2 Sheets—Sheet 1.

J. GOTTLIEB.

SHEET PILING ATTACHMENT FOR PRINTING PRESSES.

No. 584,633.

Patented June 15, 1897.

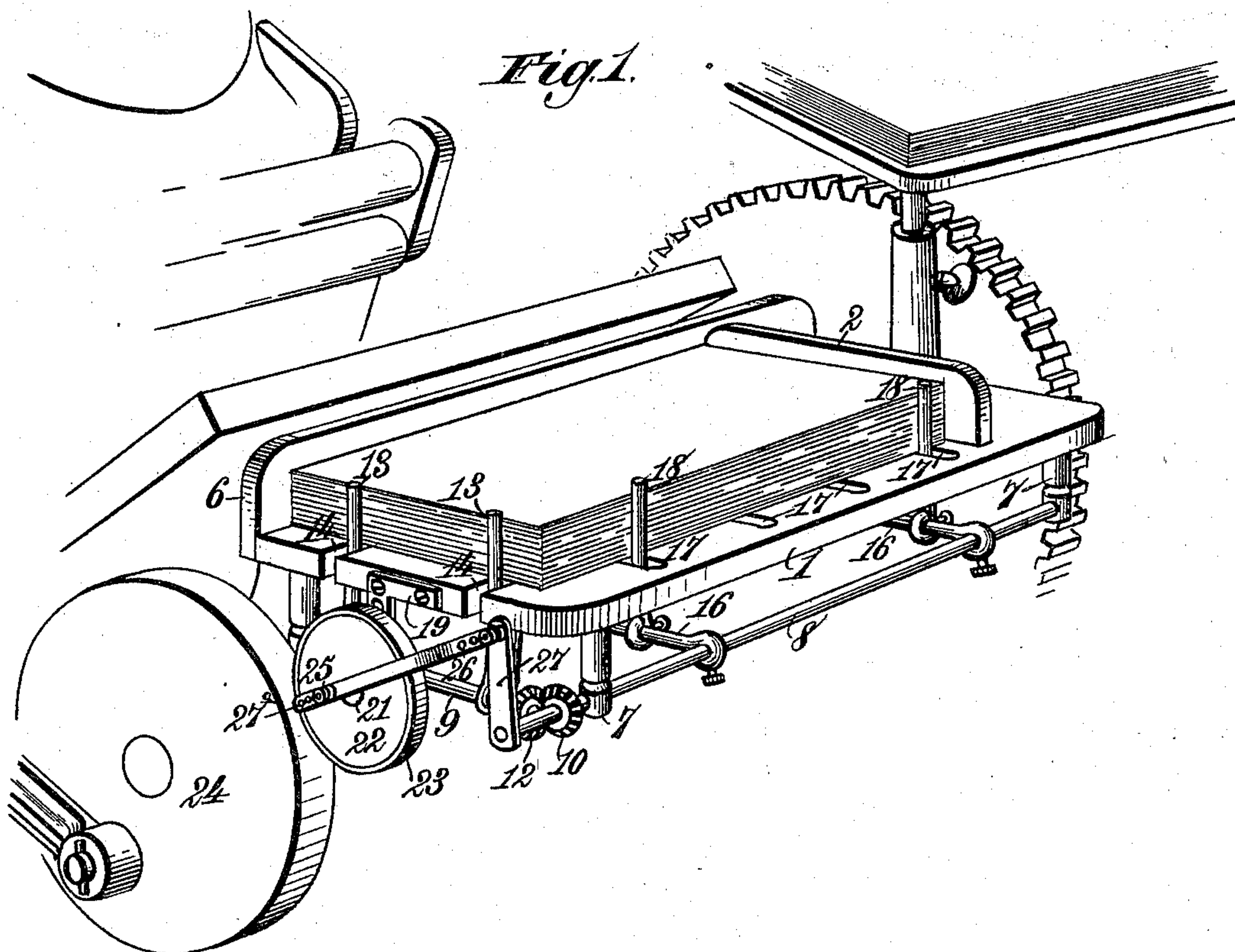
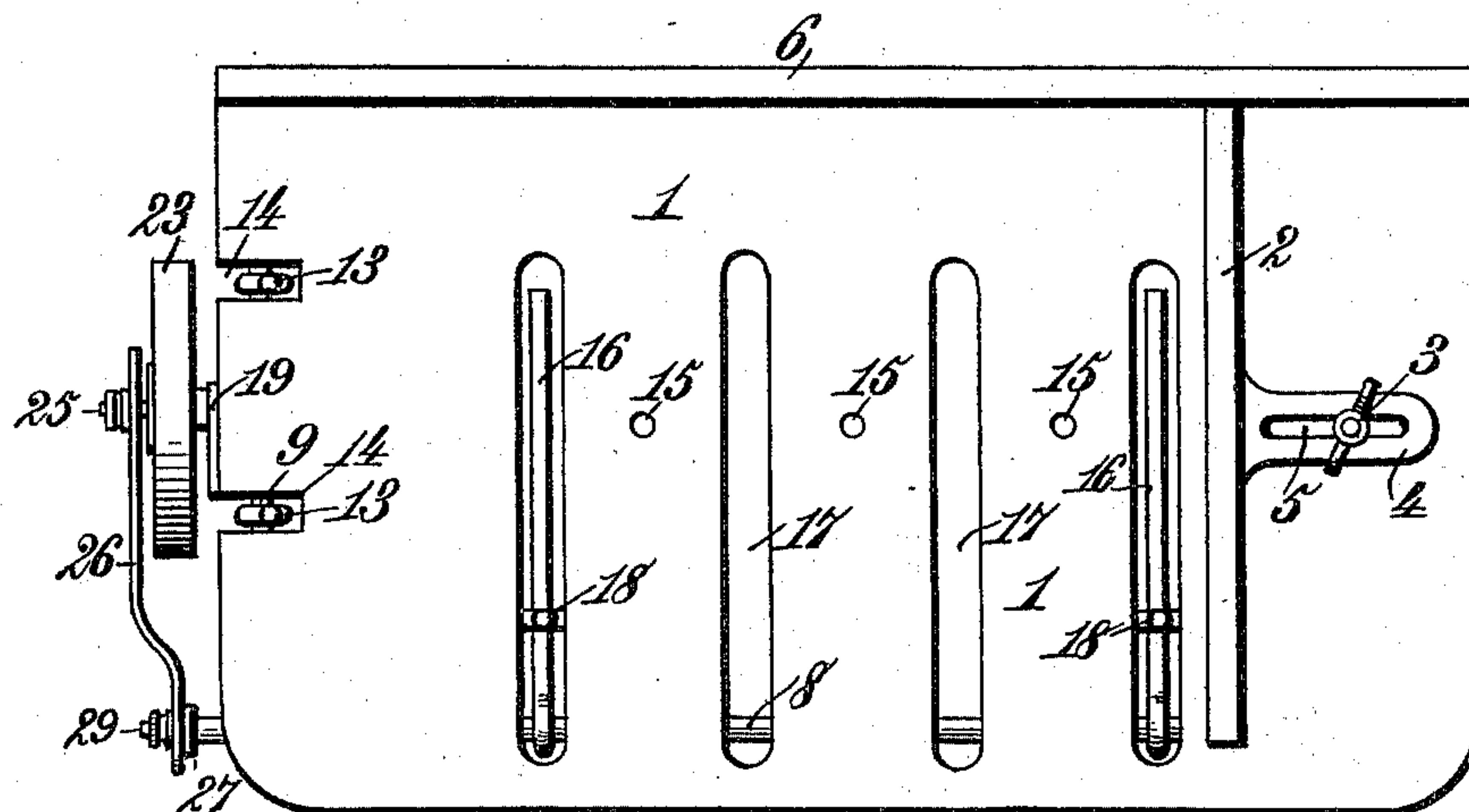


Fig. 2.



Witnesses.

Robert Emmett.

[Handwritten signature]

Inventor:

Jacob Gottlieb.

By James L. Norris.

Atty.

(No Model.)

2 Sheets—Sheet 2.

J. GOTTLIEB.

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Fig. 3.

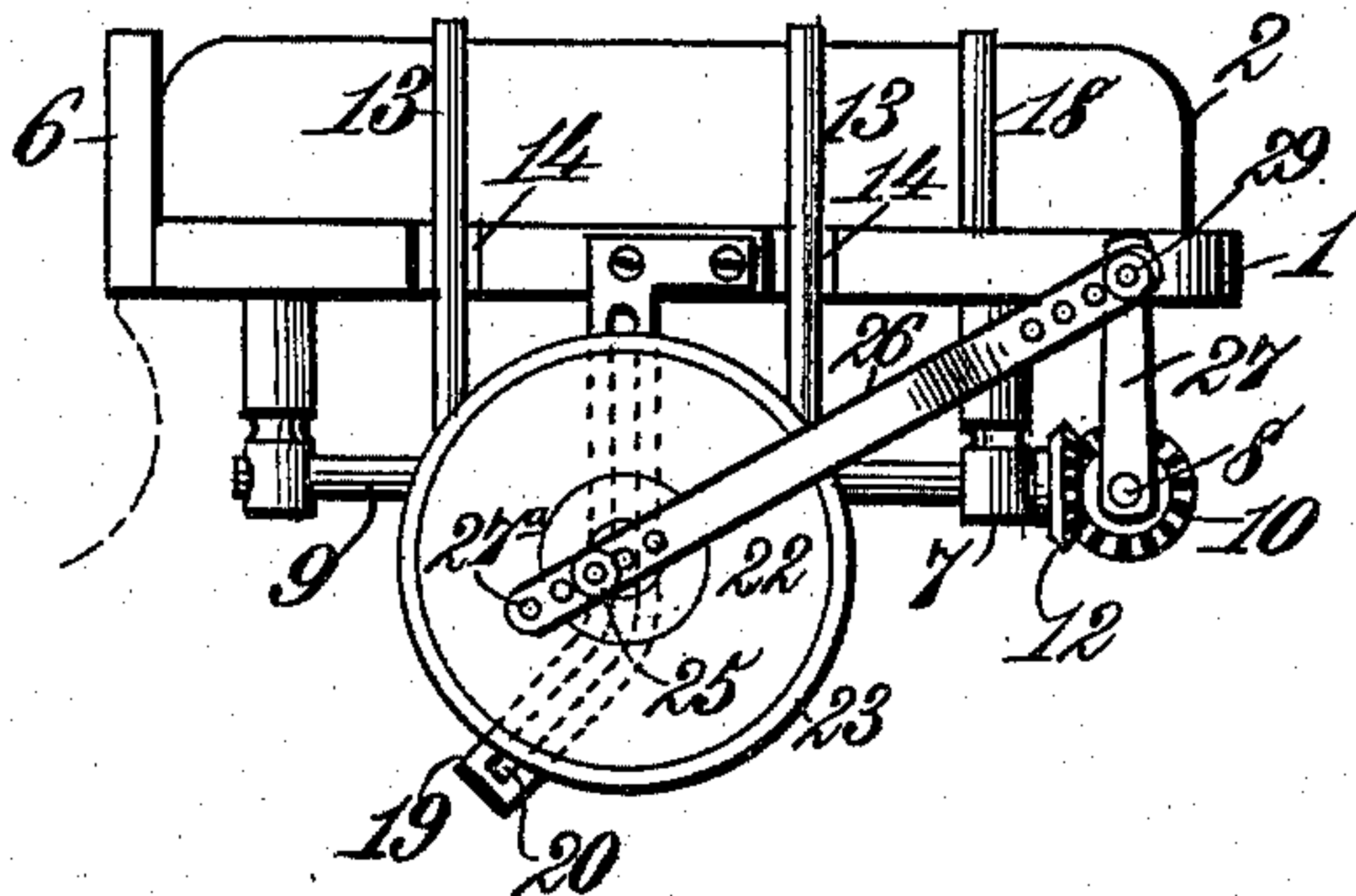
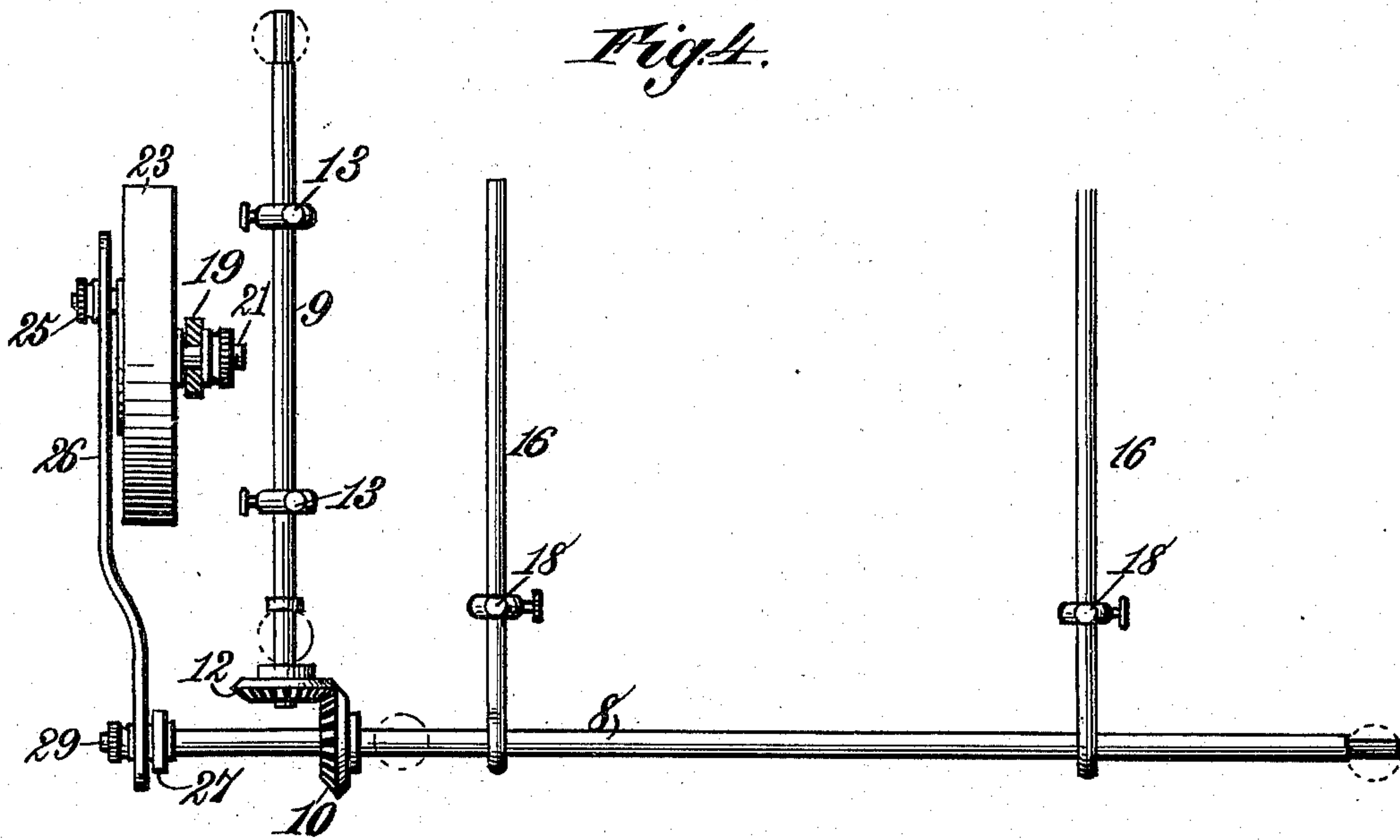


Fig. 4.



Witnesses.
Robert Garrett.
J. B. Keefe

Inventor.
Jacob Gottlieb.
By *James L. Norris.*
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UNITED STATES PATENT OFFICE.

JACOB GOTTLIEB, OF CUMBERLAND, MARYLAND.

SHEET-PILING ATTACHMENT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 584,633, dated June 15, 1897.

Application filed March 16, 1897. Serial No. 627,815. (No model.)

To all whom it may concern:

Be it known that I, JACOB GOTTLIEB, a citizen of the United States, residing at Cumberland, in the county of Allegany and State of Maryland, have invented new and useful Improvements in Sheet-Piling Attachments for Platen-Presses, of which the following is a specification.

My invention relates to sheet-piling attachments for platen-presses, my purpose being to provide an extremely simple and inexpensive apparatus by which sheets as they come from a press shall be piled evenly and regularly in readiness for cutting or trimming or any other operation which is to be performed.

My object is to provide a substitute for and an improvement upon the old style of jogging or piling sheets, the means used having been ordinarily operated by hand upon platen-presses.

It is another object of my invention to so organize a mechanism of this type that the jogging and adjusting devices shall be capable of operating upon sheets of different sizes. I also aim to so construct and combine the several parts of the attachment that they shall work without noise, require a nominal power merely for their operation, and be capable of use with any pattern of press without any material alteration.

The invention consists in the several novel features of construction and new combination of parts hereinafter fully described, and then particularly pointed out and defined in the claims which follow this specification.

To enable those skilled in the art to which my invention pertains to fully understand the same, I will explain said invention in detail, reference being had for this purpose to the accompanying drawings, in which—

Figure 1 is a perspective view of a portion of an ordinary Gordon job-press having my invention attached. Fig. 2 is a part plan view showing the attachment removed from the press. Fig. 3 is an end elevation of the same. Fig. 4 is a view showing the parts detached from the table.

The reference-numeral 1 in said drawings indicates the table upon which the sheets are piled as they come from the platen of the printing-press. It is provided upon one end with a gage 2, which is usually secured by a

set-screw 3, engaging with a bracket 4, having a slot 5 to receive the screw. Upon one side of said table is a stationary gage-plate 6 at a right angle to the gage 2.

Beneath the table and supported in hangers 7 are two shafts 8 9, the former being arranged beneath that edge of the table opposite the gage 6 and the latter shaft beneath the end opposite the movable gage 2. These shafts are connected together at their ends by bevel-gears 10 and 12.

Upon shaft 9 are rigidly mounted two or more joggers or fingers 13, which extend upward through slots 14 in the table 1. These joggers or fingers 13 are adjustable upon the shaft, but as the gage 2 is movable from one to another of a series of openings 15 in the table 1, which receive its attaching set-screw 3, the adjustment of the joggers or fingers toward and from said gage is not necessary. On the other shaft, 8, are mounted a plurality of arms 16, which extend beneath the table in lines parallel with a series of slots 17, formed in the table. Upon these arms are mounted joggers or fingers 18, which project upward through the slots 17 and can be adjusted toward and from the stationary gage 2 to any size of sheets.

Upon the end of the table opposite the gage 2 is a hanger 19, having a slot 20, in which is supported the end of an axle or shaft 21, on which is mounted a friction pulley or wheel 22, provided with a rubber periphery. The lower end of the hanger 19 is preferably inclined, so that the pulley can be adjusted to have frictional contact with the periphery of the disk or wheel 24, which operates the pitman connected to the press-frame. A crank or eccentric pin 25 on the disk is connected to a bar 26, the end of which is joined to the end of a crank-arm 27, rigid upon the end of the shaft 8, so that the revolution of the pulley will produce a rocking motion in both shafts. The bar 26 has at each end a series of openings or holes 27^a, which permit the attachment of the pivot-pin 29 and crank or eccentric pin 25, so that the initial position of the joggers or fingers 13 and 18 can easily be regulated.

If the axle or shaft 21 of the friction pulley or wheel 22 be raised or lowered on its hanger or support 19, it is necessary in the arrange-

ment shown to adjust the connection between the crank or eccentric pin 25 and the crank-arm 27, which is easily accomplished by the series of holes or openings 27^a in the ends of the connecting bar or link 26. I do not, however, confine myself to the specific means described and shown for lengthening or shortening the connection between the crank or eccentric pin and the crank-arm.

10 The operation of the parts described is obvious. The gage 2 is moved up toward the joggers or fingers 13, or in the opposite direction, and the joggers or fingers 18 are adjusted on the arms 16 according to the size of
15 sheets to be piled. As said sheets are brought upon the table the joggers or fingers 13 and 18 vibrate and push the sheets against the gage-plates 2 and 6. As the pile reaches the upper edges of these gage-plates it can be re-
20 moved.

My invention can be applied to any apparatus where cut sheets or cards are used, whether printing or some other operation is to be performed upon them.

25 What I claim is—

1. The combination with a support on which sheets are delivered from a printing-press, of two rocking shafts, a driven pulley or wheel connected with one of said shafts to rock the
30 same, gearing connecting said shafts, whereby both are rocked simultaneously, and joggers or fingers connected with and rocked by said shafts, substantially as described.

2. The combination with a support on which
35 sheets are delivered from a printing-press, of two rocking shafts arranged, respectively, parallel with one end and one side of said support, beveled gears connecting the shafts, a driven pulley or wheel, a pitman connecting
40 the driven pulley or wheel with one of the shafts, and joggers or fingers connected with and operated by said shafts, substantially as described.

3. The combination with a sheet-piling ap-
45 paratus of a support having one rigid and one movable gage upon one side and end, shafts

beneath the opposite side and end having bevel-gears, fingers mounted rigidly on the shaft opposite the movable gage and rising above the support through slots therein, fin- 50
gers adjustable on arms extending from the other shaft, said fingers rising through elongated slots in the support, a friction-pulley adjustable on its journal-support in a slotted hanger and a connection between a crank-pin 55
on said pulley and the end of an arm on one of the shafts, substantially as described.

4. In a sheet-piling mechanism, the combination with a support having a rigid gage on one side, of an adjustable gage at a right 60
angle thereto, a shaft in hangers beneath the side opposite the fixed gage and a like shaft opposite the movable gage, their ends having intermeshing bevel-gears, fingers rigidly mounted on the latter shaft, a plurality of 65
similar fingers adjustable on arms extending from the shaft opposite the fixed gage, a friction-pulley having its journal bearing in a hanger having a vertical and an inclined slot and a pitman the slotted ends of which con- 70
nect a crank-pin on the pulley with the end of an arm on one of the shafts, substantially as described.

5. A sheet-piling mechanism comprising a support for the piled sheets, a rock-shaft hav- 75
ing arms which extend therefrom beneath the support, fingers adjustable upon said arms and rising through slots in said support, a second shaft at right angles to the first and geared thereto, fingers adjustably mounted 80
on said second shaft and rising above the support, a gage-plate on the support, adjustable toward or from said fingers, and means for rocking one of said shafts, substantially as described. 85

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JACOB GOTTLIEB.

Witnesses:

R. HUGH MCCLURE,
PERRY L. MCELISH.