

G. E. PANCOAST.
SHEET DELIVERY MECHANISM.
APPLICATION FILED MAY 17, 1905.

918,084.

Patented Apr. 13, 1909.

SHEETS—SHEET 1.

Fig. 2,

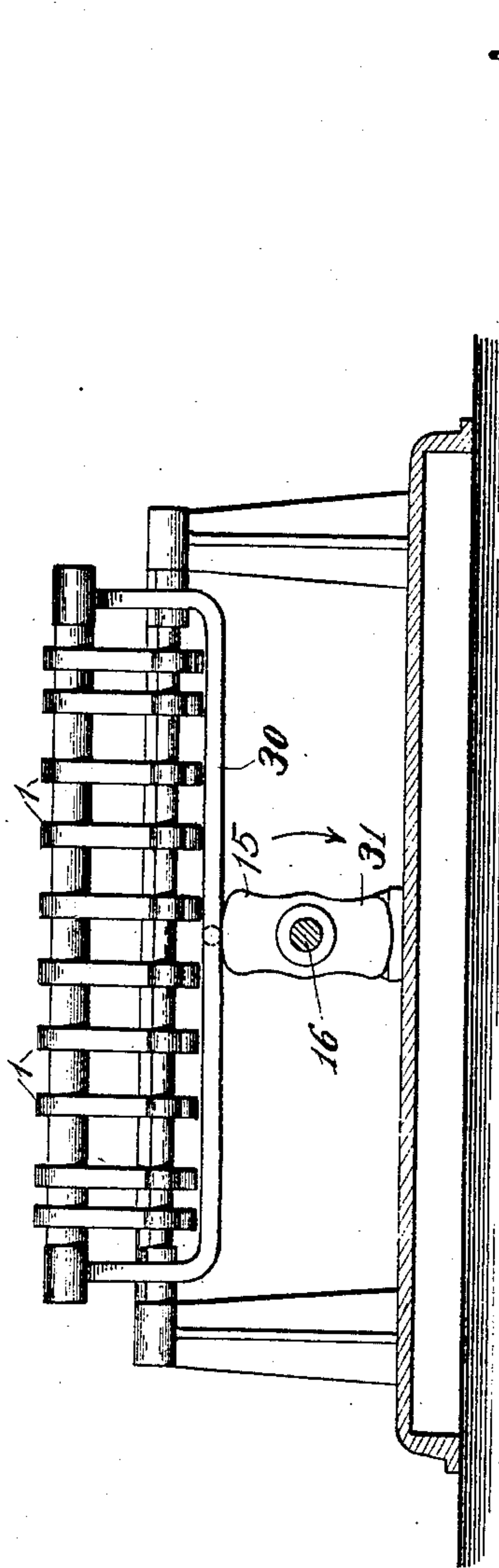
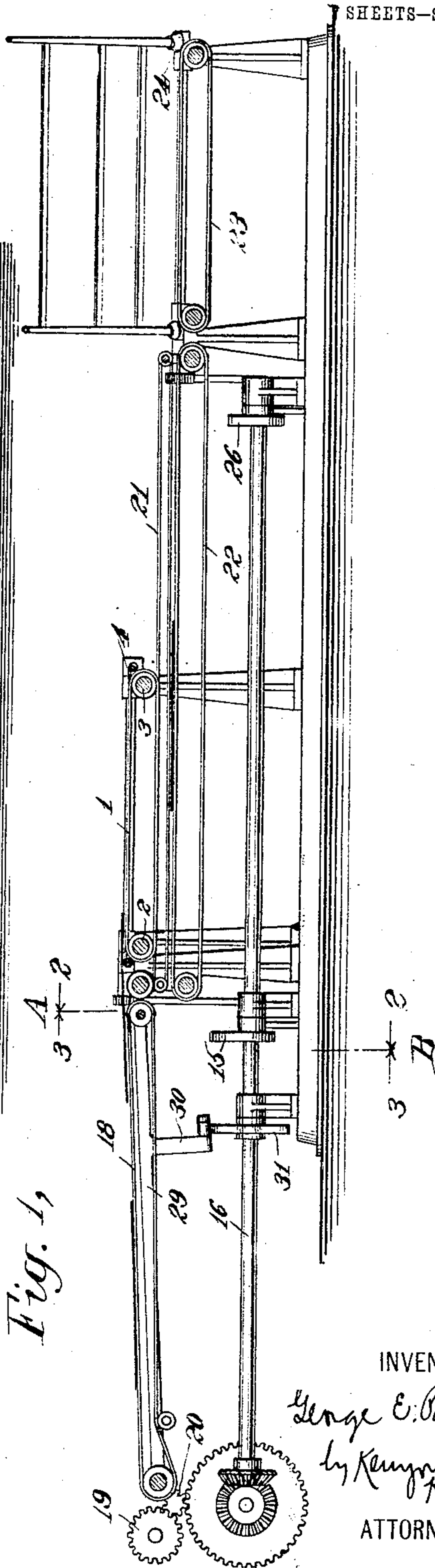


Fig. 1,



WITNESSES:

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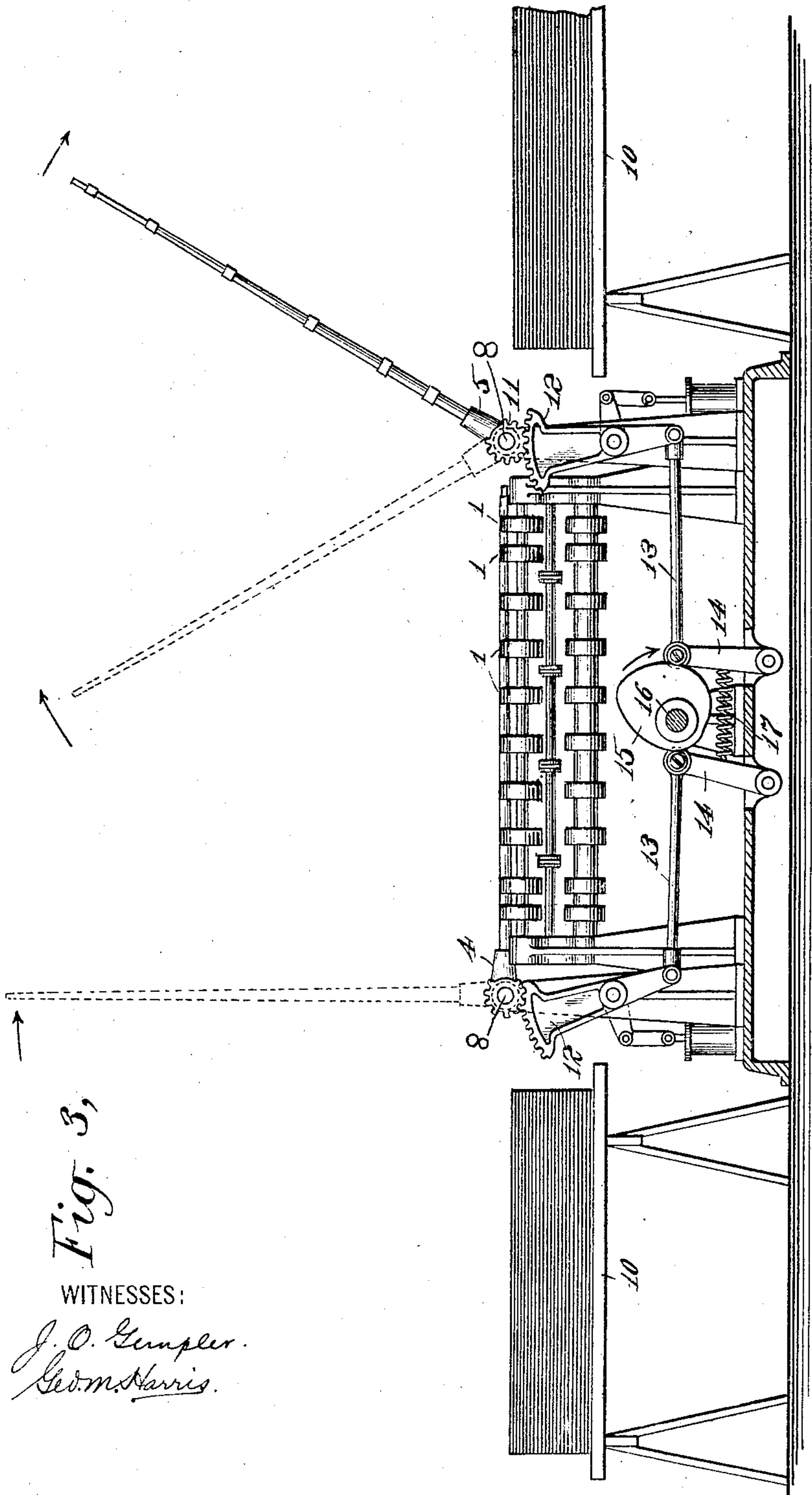
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7 SHEETS—SHEET 2.



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7 SHEETS—SHEET 3.

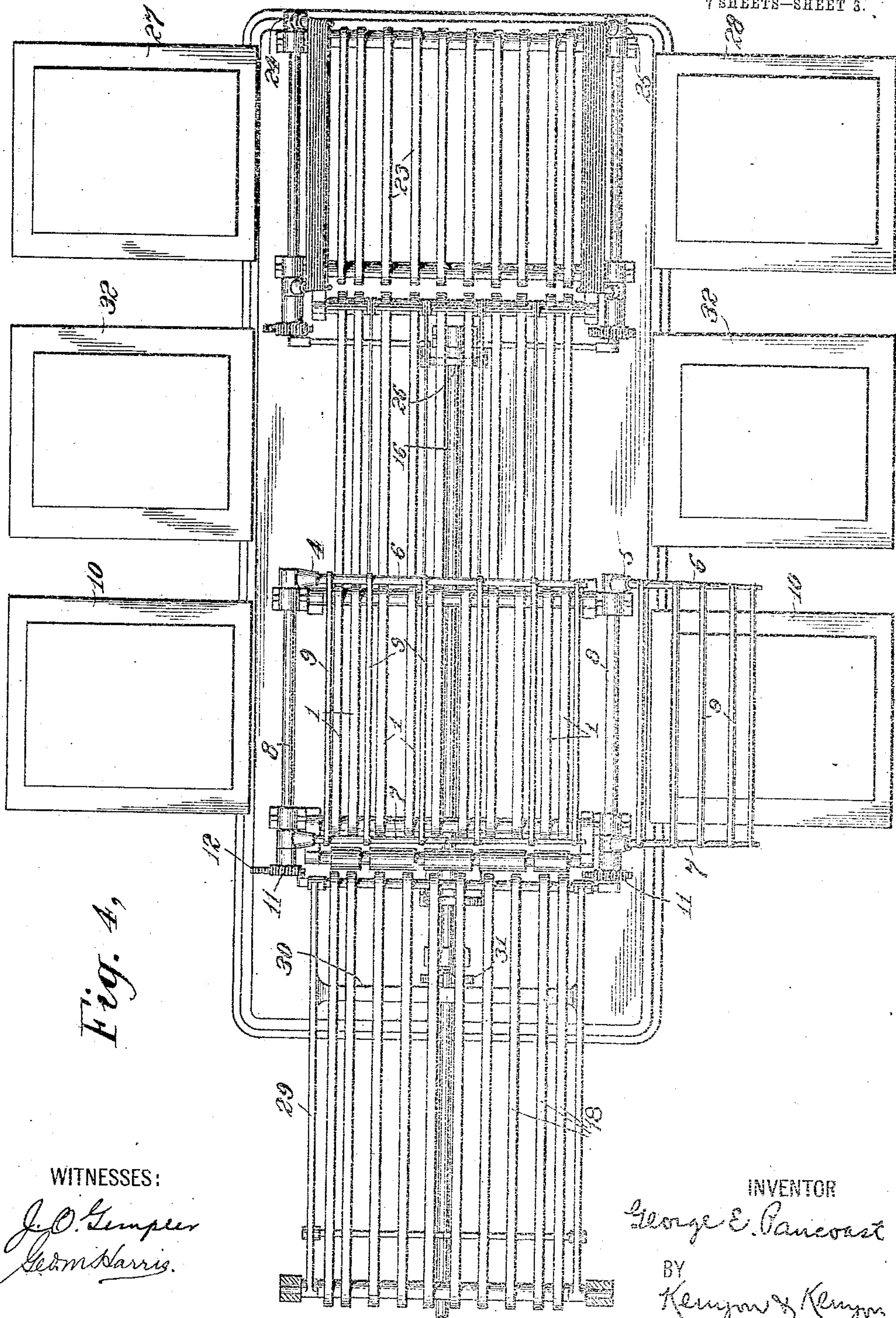


Fig. 4.

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7 SHEETS—SHEET 4.

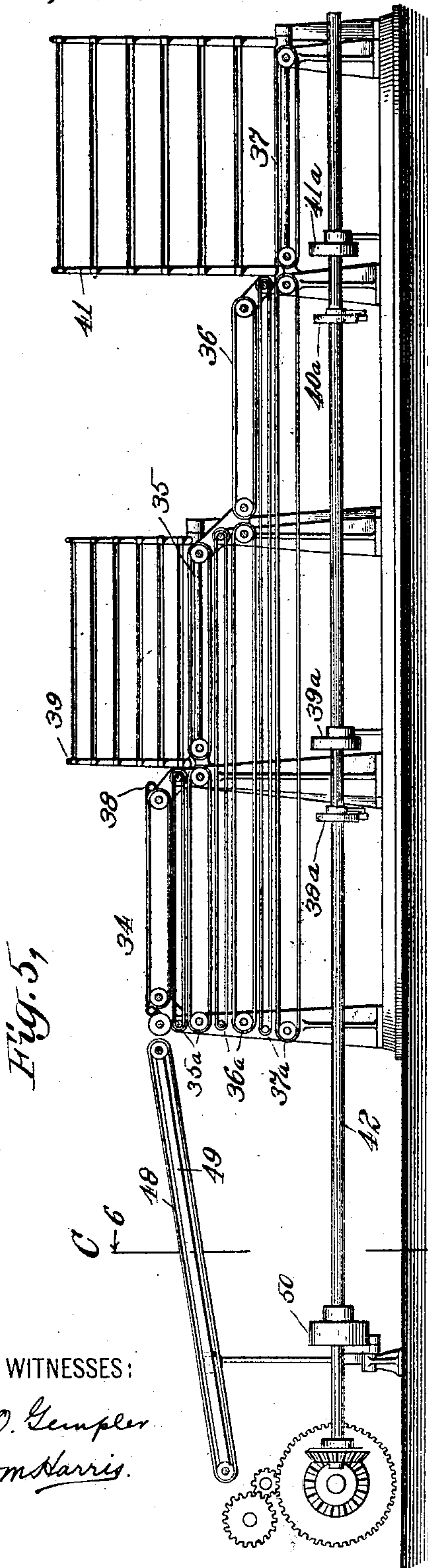


Fig. 5.

WITNESSES:

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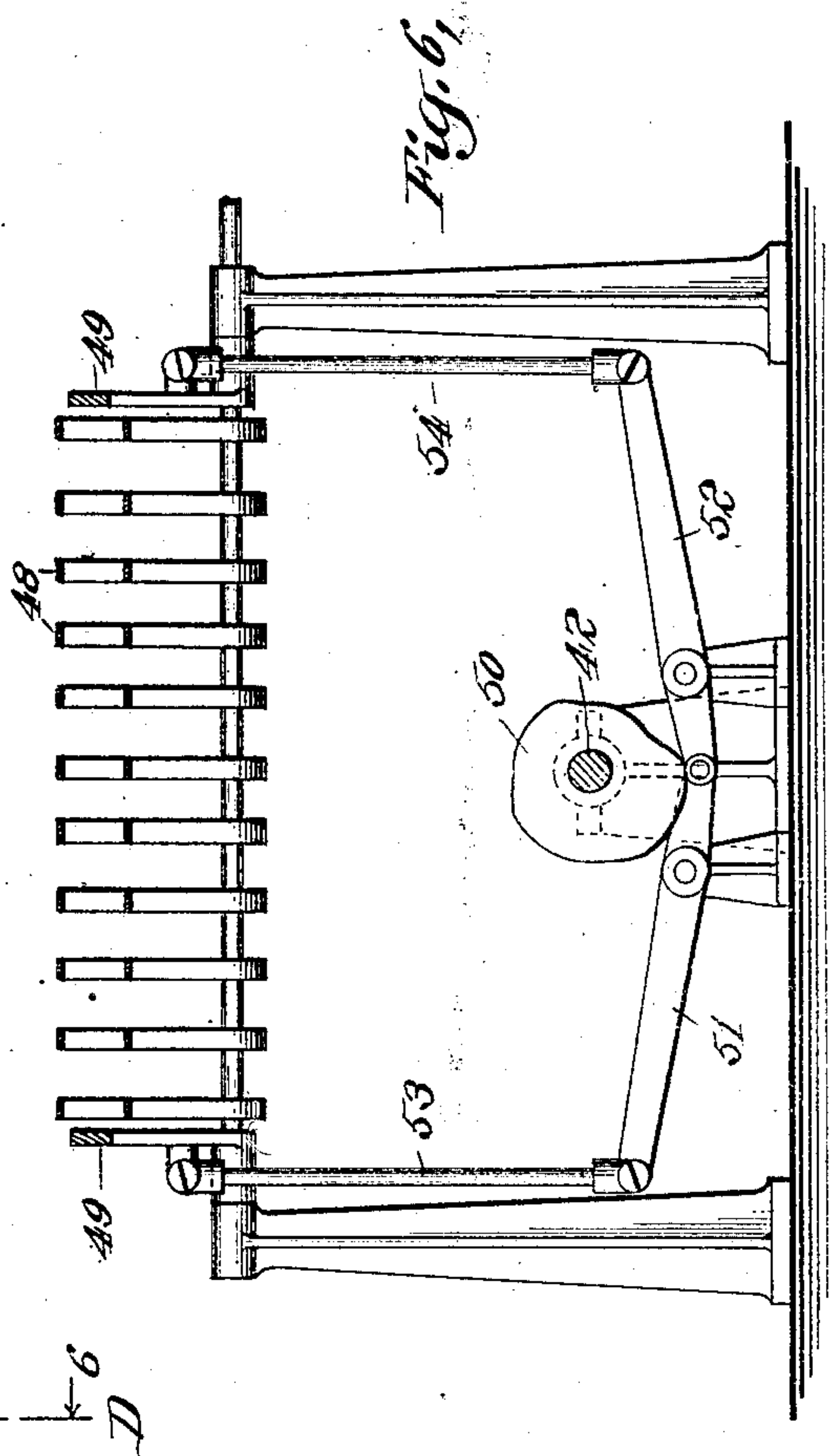


Fig. 6.

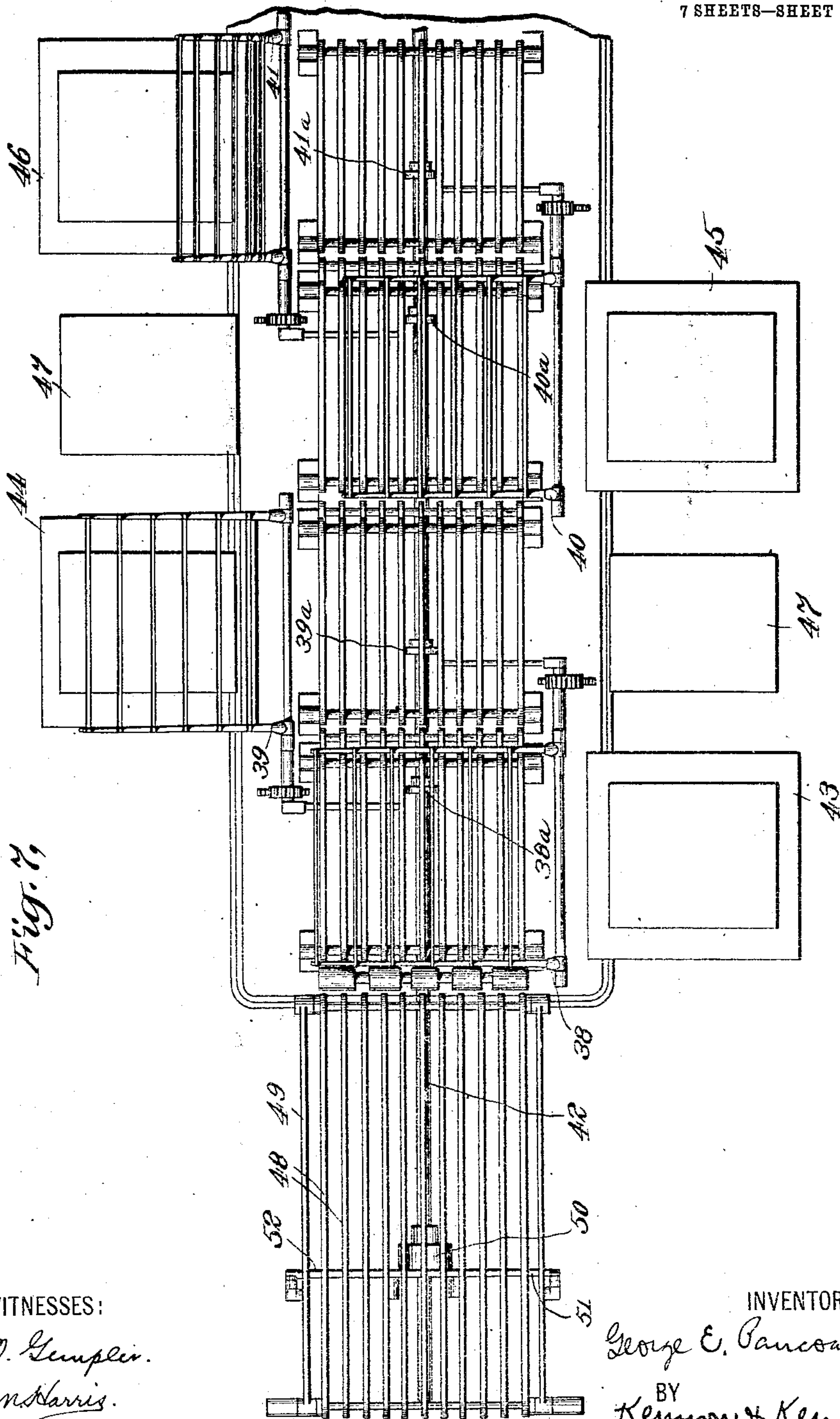
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7 SHEETS—SHEET 5.



WITNESSES:

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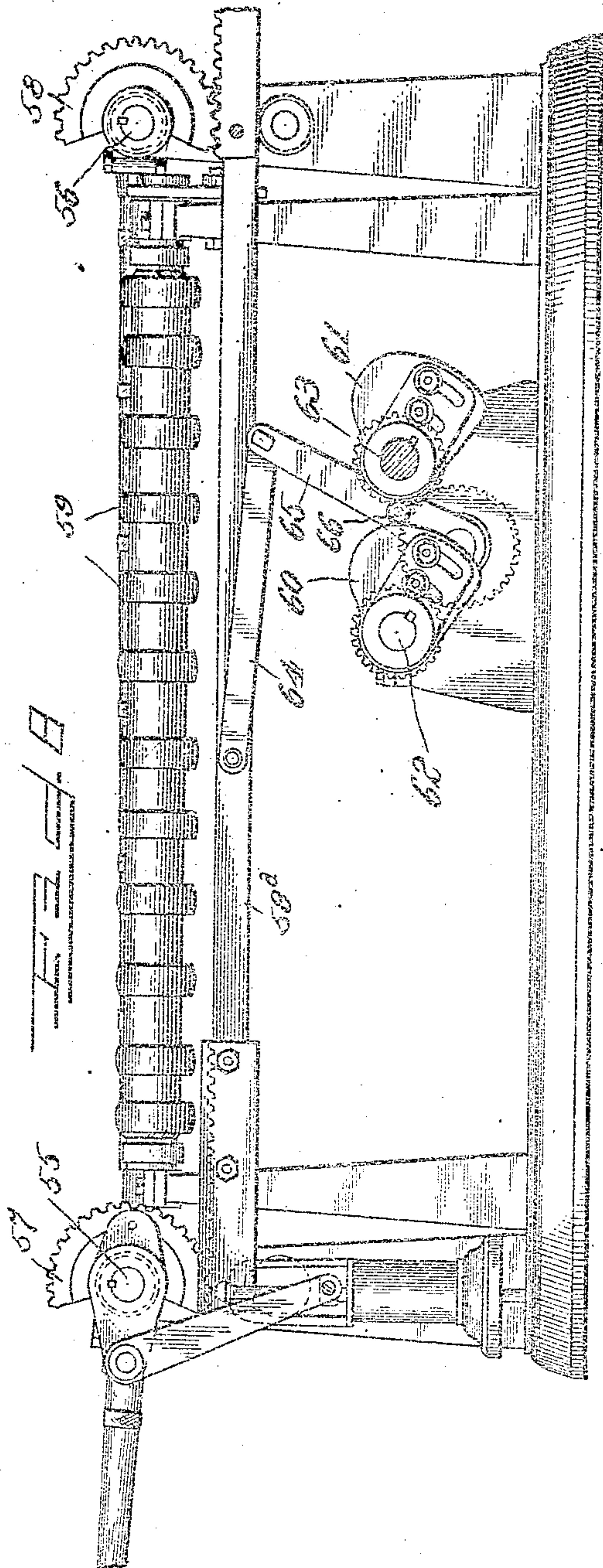
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APPLICATION FILED MAY 17, 1905.

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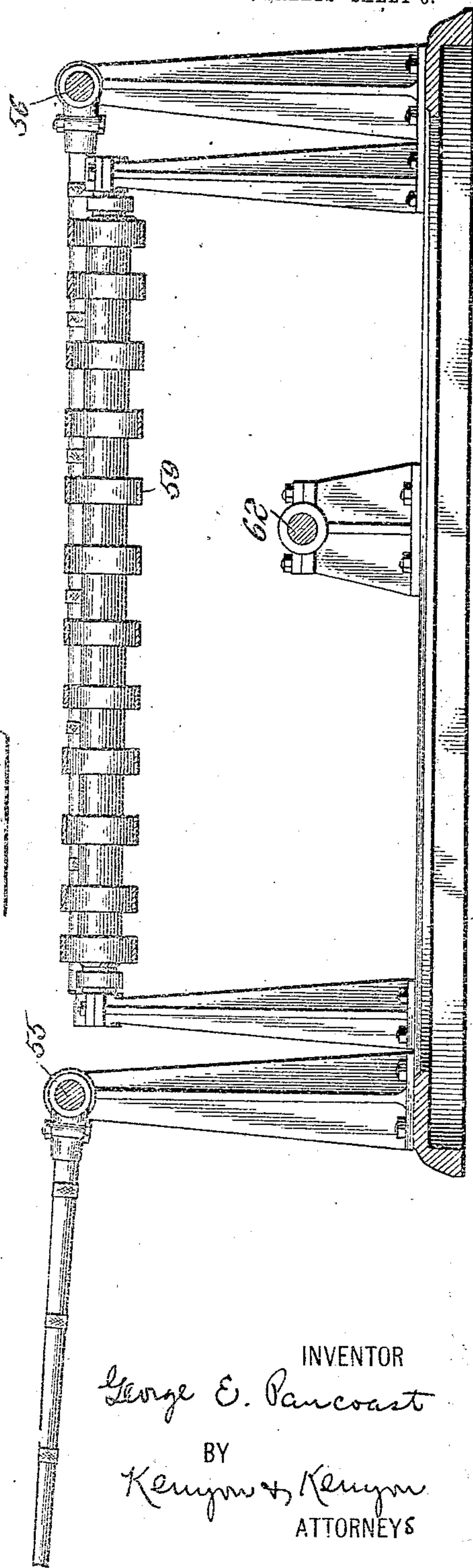
Patented Apr. 13, 1909.

7 SHEETS—SHEET 6.



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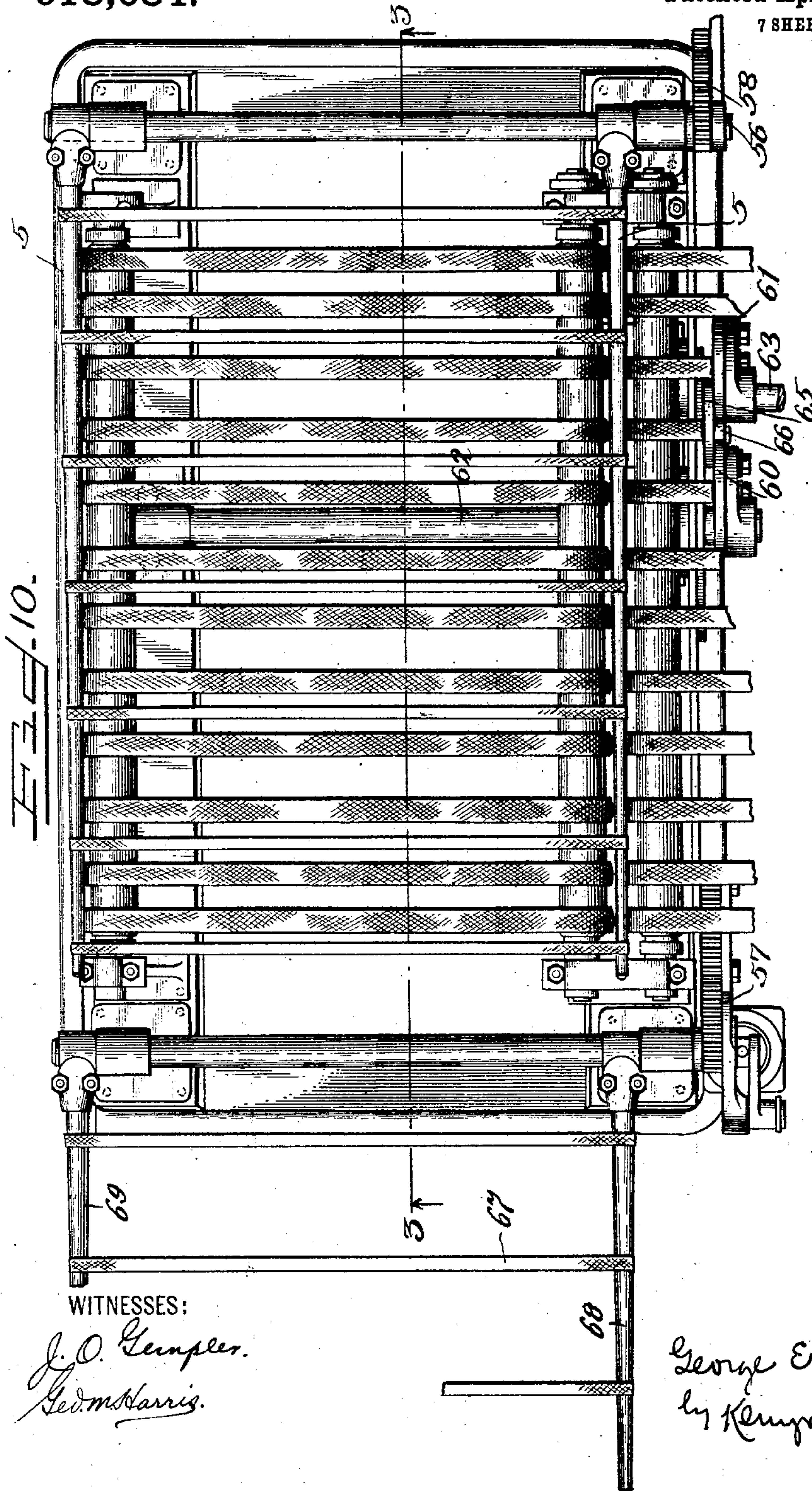
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SHEET DELIVERY MECHANISM.
APPLICATION FILED MAY 17, 1905.

Patented Apr. 13, 1909.

7 SHEETS—SHEET 7.



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UNITED STATES PATENT OFFICE.

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SHEET-DELIVERY MECHANISM.

No. 918,084

Specification of Letters Patent.

Patented April 13, 1909.

Application filed May 17, 1905. Serial No. 260,777.

To all whom it may concern.

Be it known that I, GEORGE E. PANCOAST, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Sheet-Delivery Mechanisms, of which the following is a specification.

This invention relates to sheet delivery mechanisms for printing presses and other machines for manipulating paper; and while as to some of its features it is useful in various relations, it is more particularly directed to the delivery of printed sheets in flat form.

The invention has for an object to provide a sheet delivery mechanism which is adapted to deliver sheets at a high rate of speed; also to provide a machine which is adapted to deliver sheets issuing from a printing press or similar machine in close succession or with slight spaces between them; also to provide a mechanism which is adapted to deliver printed sheets without contacting with the freshly printed surfaces; also to provide a mechanism whereby the operation of placing blank sheets between the printed sheets to prevent offset, or "slip sheeting" as it is termed in the art, may be easily and economically effected. These and other objects of the invention will in part be obvious and in part will be more fully set forth in the following description.

My invention consists in the novel parts, improvements, and combination herein shown and described.

The drawings, which are referred to herein and form a part hereof, illustrate two embodiments of the invention together with modifications of certain features thereof, the same serving in connection with the description herein to explain the principles of the invention.

Of the drawings, Figure 1 is a longitudinal vertical section of a delivery mechanism constructed in accordance with my invention; Fig. 2 is a transverse section of the same on an enlarged scale, the section being taken on the line A, B of Fig. 1, looking in the direction of the arrows 2; Fig. 3 is a longitudinal section of the same on a still larger scale, the section being taken on the line A, B of Fig. 1, looking in the direction of the arrows 3; Fig. 4 is a plan view of the same; Fig. 5 is a longitudinal central section of a modified form of the mechanism;

Fig. 6 is a transverse section of the same on an enlarged scale, the section being taken on the line C, D of Fig. 5, looking in the direction of the arrows 6; Fig. 7 is a plan view of the same; Figs. 8 and 9 are transverse sectional views on an enlarged scale illustrating more in detail certain features of the invention; and Fig. 10 is a plan view of the same.

Like reference numerals refer to like parts.

A delivery mechanism constructed in accordance with one feature of the invention includes in combination, means for conveying the sheets from the printing press or other machine, and a plurality of devices for transferring the sheets from the conveying means to suitable receiving means, at least one of said devices being constructed to transfer its sheets in a direction which may be generally defined as widthwise of the path of the sheets in the conveying means.

In accordance with one embodiment of the invention, the device for transferring the sheets widthwise of the conveying means is in the form of an oscillating fly frame, which first moves the sheets at right angles to the width of the sheet path and then swings them over in the direction of the width of the path and deposits them in a reversed position upon a suitable receiving means arranged at the side of the conveying means.

In accordance with one feature of the invention, a plurality of the transferring devices are provided, the same operating on opposite sides of the pathway to transfer the sheets in opposite directions and alternately, first on one side of the pathway, and then on the other.

In accordance with another feature of the invention, the conveying means includes a plurality of sheet pathways, with each of which one or more transferring devices cooperate; and conformably with one embodiment of this feature, means are provided for directing the sheets issuing successively from a single source alternately or in rotation to the several pathways of the conveying means.

Referring now to the particular embodiment of the invention illustrated in Figs. 1, 2, 3, and 4, the sheet conveying means includes a set of tapes 1, which, as shown, are mounted upon a pair of transverse shafts 2 and 3 which receive motion from any suitable source of power. At the opposite sides of the horizontal sheet pathway formed by

the upper stretches of the tapes 1 are mounted a pair of sheet transferring devices 4 and 5 (see Figs. 3 and 4). These sheet transferring devices may be constructed in any suitable manner to adapt them to properly cooperate with the sheet conveying means. Where the sheet conveying means comprises sets of tapes, as shown, the sheet transferring means are, preferably and in accordance with one feature of the invention, constructed in the form of fly frames, each consisting of two side arms 6 and 7 fixed at one end to a rock-shaft 8 and carrying a series of transverse members 9 adapted to lie between the upper stretches of the tapes 1 when the fly frame is in its sheet receiving position. The rock-shaft 8 may be operated in any suitable manner to cause the fly frame to move back and forth from its sheet receiving position to a suitable receiving device, as a table 10 located at the side of the conveying means, as shown in plan in Fig. 4. As indicated in the drawing, the shaft 8 is operated by a pinion 11 secured to one end of the shaft, the pinion meshing with an oscillating segment 12 connected by a link 13 with a rock-arm 14 having a roller arranged to run in contact with a suitable cam 15 on a driving shaft 16. As shown, the operating mechanisms for the two sheet transferring devices 4 and 5 are of like construction and cooperate with the same cam 15, the rollers on the rock arms 14 being held in contact with the cam by a tension spring 17 connecting the two rock arms and said cam being so formed as to cause the sheet transferring devices to operate alternately, one being moved into operative position when the other is moved out, and vice versa.

The sheets may be presented to the conveying tapes 1 by any suitable means. As shown, the sheet receiving means includes a set of tapes 18, which receive the sheets from the press or other machine, said tapes being mounted on transverse shafts and receiving motion from any suitable source, as the train of gears 19 and 20.

Where the sheets are presented to the delivery mechanism in close succession, so that one sheet cannot be taken away by one of the transferring devices 4 and 5 and the other transferring device brought to position in time to receive the next sheet, the sheet conveying means may be provided with a plurality of sheet pathways and means provided whereby the successive sheets issuing from the press are presented to different pathways, one or more sheet transferring devices being arranged to cooperate with each pathway.

As shown, a second pathway is provided in the sheet conveying means, the same consisting in part of the upper and lower sets of cords or tapes 21 and 22 and in part of a set of tapes 23, which as shown are arranged in

the same plane as the tapes 22 and form a continuation of the pathway provided between the tapes 21 and 22. Any suitable means may be provided for transferring the sheets from the tapes 23, or the sheets may be transferred directly from the tapes 22.

As shown, a second set of sheet transferring device 24 and 25 are provided (see Fig. 4), the same being arranged on opposite sides of the set of tapes 23, and as shown being the same in construction as the transferring devices 4 and 5 and operated by similar mechanism from a cam 26 on the shaft 16. The sheets transferred by these devices may be deposited on a suitable sheet receiving means, as the tables 27 and 28 arranged at the opposite sides of the machine. Any suitable means may be provided for presenting the sheets alternately to the two pathways of the conveying means. As shown, the tapes 18 are mounted on a frame 29, which is pivoted at or near the end adjacent to the press so that its opposite end may be moved upwardly and downwardly from a position adapted to direct the sheets into the tapes 1 to a position adapted to direct the sheets between the tapes 21 and 22.

The frame may be operated by any suitable means. As shown, it is provided with an arm or yoke 30 (see Fig. 2), having a stud roller adapted to cooperate with a suitable cam 31 on the shaft 16. In accordance with the construction described, the sheets will be delivered onto four receiving tables, two arranged on each side of the press. To facilitate the operation of slip sheeting, the mechanism is so constructed that the tables at each side of the press will be separated by a space sufficient to receive a supporting table 32 for the slip sheets, so that one operator at each side of the machine will be enabled to insert the slip sheets between the sheets deposited on the two tables at the opposite sides of the slip sheet table.

In accordance with the construction shown in Figs. 5, 6, and 7, the conveying means is provided with four sheet pathways 34, 35, 36, and 37, the pathways 35, 36, and 37 being formed in part by the upper and lower sets of tapes 35^a, 36^a, and 37^a, respectively. As shown, a single sheet transferring means is arranged to cooperate with each of the pathways 34, 35, 36, and 37, said transferring devices consisting, as shown, of oscillating fly frames 38, 39, 40, and 41, respectively, (see Fig. 7). As shown, these fly frames are constructed like the fly frames described in connection with the form of device shown in Figs. 1, 2, 3, and 4, and they are operated by similar mechanism from the cams 38^a, 39^a, 40^a, and 41^a on the longitudinal drive shaft 42.

As shown, the several sheet transferring devices deposit the sheets upon the tables 43, 44, 45, and 46, said tables being suitably ar-

5 ranged at opposite sides of the machine. As
 shown, the sheet receiving tables at the oppo-
 site sides of the machine are so located that a
 slip sheet receiving table 47 may be arranged
 10 between them. The part of the sheet con-
 veying means which receives the sheets from
 the press or other machine is preferably con-
 structed to deliver the sheets in succession to
 the several pathways. As shown, a set of
 15 tapes 48 is mounted on a frame 49 adapted
 to oscillate about one end, said frame being
 operated at suitable intervals by a cam 50
 arranged on the shaft 42, the connections be-
 tween the cam and the shaft consisting, as
 20 shown, of a pair of levers 51 and 52, which
 bear at one end on the cam 50 and are con-
 nected at the other end to the side members
 of the frame 49 by links 53 and 54 (see Fig. 6).

In Figs. 8, 9, and 10 a modified form of
 25 operating mechanism for a pair of alternately
 operating sheet transferring devices is illus-
 trated. As here shown, the rock shafts 55
 and 56 of the sheet transferring devices are
 provided with gear segments 57 and 58, re-
 spectively, which mesh with racks formed at
 the opposite ends of a transverse bar 58^a so
 that when one transferring device is moved
 into position to receive the sheet from the
 conveying tapes 59, the other will be moved
 30 to transfer the sheet widthwise of the tape
 pathway and deposit it at one side of the con-
 veying means, and vice versa. The bar may
 be operated in any suitable manner. In
 order that this bar may positively be moved
 35 in opposite directions so that the movements
 of the sheet transferring devices may be posi-
 tive and definite, irrespective of any resist-
 ance which may be encountered thereby, as
 for example, air pressure upon the sheets be-
 40 ing transferred, a pair of complementary
 cams 60 and 61 are provided, the same being
 mounted on a pair of shafts 62 and 63 posi-
 tively geared to rotate in unison, as shown.
 These cams are connected to the bar 58 by
 45 link 64 and rock arm 65, having a stud roller
 66 arranged between the cams 60 and 61 so
 as to be positively moved thereby, first in one
 direction and then in the other. The cams 60
 and 61 are preferably so mounted on their
 50 shafts that they may be adjusted angularly
 as may be required to give the sheet trans-
 ferring devices the proper relative movement.
 As shown in Fig. 10, the members 67, which
 extend between the arms or fingers 68 and 69
 55 of the fly frame, may be formed of flexible
 cords or tapes suitably stretched to give
 them the required sheet supporting power.

It will be observed that where this delivery
 mechanism is used in connection with a
 60 printing press and the sheets are presented to
 the sheet conveying means with the printed
 side up, the sheets may be properly delivered
 without having their printed faces brought
 into contact with any part of the mechanism,
 65 it being understood that where a sheet path-

way is formed in part by upper and lower
 tapes, the upper tapes or cords will be slightly
 separated from the lower ones so that they
 will not contact with the sheets except the
 latter be accidentally lifted as by a current 70
 of air.

It will also be observed that a mechanism
 constructed in accordance with the prin-
 ciples herein explained may be arranged to
 properly deliver the sheets in flat condition 75
 and with great rapidity, even where the
 sheets leave the printing press or other ma-
 chine in close succession. Means are afford-
 ed also whereby the slip sheets may be inserted
 where the sheets are delivered from the press 80
 with great rapidity.

Other advantages of the construction de-
 scribed will be obvious to those skilled in
 the art.

My invention in its broader aspects is 85
 not limited to the particular constructions
 herein shown and described, as many
 changes may be made therein without de-
 parting from the main principles of the in-
 vention and without sacrificing its chief ad- 90
 vantages.

What I claim is:

1. A sheet delivery mechanism including
 in combination, means for conveying the
 sheets issuing successively from a single 95
 source, and a plurality of devices for trans-
 ferring the sheets from the conveying means
 to different points of delivery, one of said
 devices being constructed to transfer its
 sheets widthwise of their path in the con- 100
 veying means.

2. A sheet delivery mechanism including
 in combination, means for conveying the
 sheets issuing successively from a single 105
 source, and a plurality of devices for trans-
 ferring the sheets from the conveying means
 to different points of delivery, said devices
 being constructed to transfer the sheets
 widthwise of their paths in the conveying
 means. 110

3. A sheet delivery mechanism including
 in combination, means for conveying the
 sheets issuing successively from a single
 source, and a plurality of devices for trans- 115
 ferring the sheets from the conveying means
 to different points of delivery, said devices
 being constructed to transfer the sheets in
 opposite directions widthwise of their paths
 in the conveying means.

4. A sheet delivery mechanism including 120
 in combination, means for conveying the
 sheets issuing successively from a single
 source, and a plurality of devices for trans-
 ferring the sheets from the conveying means
 to different points of delivery, said devices 125
 being constructed to transfer the sheets
 alternately in opposite directions widthwise
 of their paths in the conveying means.

5. A sheet delivery mechanism including
 in combination, means for conveying the 130

5 sheets issuing successively from a single source, and a plurality of devices for transferring the sheets from the conveying means to different points of delivery, one of said devices being constructed to reverse the sheets and to transfer them widthwise of their path in the conveying means.

6. A sheet delivery mechanism including in combination, means for conveying the sheets issuing successively from a single source, and a plurality of devices for transferring the sheets from the conveying means to different points of delivery, said devices being constructed to reverse the sheets and to transfer them alternately in opposite directions widthwise of their paths in the conveying means.

7. A sheet delivery mechanism including in combination, means for conveying the sheets having a plurality of sheet pathways, and means for transferring the sheets from each of said pathways to a suitable point of delivery, one of said transferring means being constructed to transfer its sheets widthwise of their path in the conveying means.

8. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and means for transferring the sheets from each of said pathways to a suitable point of delivery, said sheet transferring means being constructed to transfer the sheets widthwise of their respective paths in the conveying means.

9. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and means for transferring the sheets from each of said pathways to a suitable point of delivery, said sheet transferring means being constructed to transfer the sheets in opposite directions widthwise of their paths in the conveying means.

10. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and means for transferring the sheets from each of said pathways to a suitable point of delivery, one of said sheet transferring means being constructed to reverse the sheets and to transfer them widthwise of their path in the conveying means.

11. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and means for transferring the sheets from each of said pathways to a suitable point of delivery, said sheet transferring means being constructed to reverse the sheets and to transfer them in opposite directions widthwise of their paths in the conveying means.

12. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, a

plurality of devices for transferring the sheets from each of said pathways to suitable points of delivery, one of the sheet transferring devices for each pathway being constructed to transfer its sheets widthwise of their path in the conveying means.

13. A sheet delivery mechanism including in combination, means for conveying the sheets issuing successively from a single source, said means including a plurality of pathways, and a plurality of devices for transferring the sheets from each of said pathways to suitable points of delivery, said devices being constructed to transfer the sheets widthwise of their respective paths.

14. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and a plurality of devices for transferring the sheets from each of said pathways to suitable points of delivery, the devices for transferring the sheets from each pathway being constructed to transfer the sheets in opposite directions widthwise of their path in the conveying means.

15. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and a plurality of devices for transferring the sheets from each pathway to suitable points of delivery, the sheet transferring devices for each pathway being constructed to reverse the sheets and to deliver them widthwise of their path in the conveying means.

16. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and a plurality of devices for transferring the sheets from each of said pathways to suitable points of delivery, the sheet transferring devices for each pathway being constructed to reverse the sheets and to transfer them alternately in opposite directions widthwise of their path in the conveying means.

17. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, and a plurality of devices for transferring the sheets from each of said pathways to suitable points of delivery.

18. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, one of said devices being constructed to deposit its sheets at a point adjacent to one edge of the conveying means.

19. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means and depositing them at points adjacent to the edges of the conveying means.

20. A sheet delivery mechanism including in combination, means for conveying the

5 sheets, and a plurality of devices for transferring the sheets from the conveying means and depositing them alternately at points adjacent to the opposite edges of the conveying means.

10 21. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, said devices being constructed to reverse the sheets and deposit them at points adjacent to the edge of the conveying means.

15 22. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, said devices being constructed to reverse the sheets and deposit them alternately at points adjacent to the opposite edges of the conveying means.

20 23. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, one of said devices being constructed to deposit its sheets at the side of the conveying means and substantially in the plane of their path therein.

25 24. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means and depositing them alternately at opposite sides of the conveying means and substantially in the plane of their path in the conveying means.

30 25. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, said devices being constructed to reverse the sheets and to deposit them at the side of the conveying means and substantially in the plane of their path therein.

35 26. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and means for transferring the sheets from each of said pathways, one of said sheet transferring means being constructed to deposit its sheets at a point adjacent to the edge of the conveying means.

40 27. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and means for transferring the sheets from each of said pathways and depositing them at a point adjacent to the edge of the conveying means.

45 28. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and means for transferring the sheets from each of said pathways and depositing

them alternately at points adjacent to the opposite edges of the conveying means. 65

29. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and means for transferring the sheets from each of said pathways, said sheet transferring means being constructed to reverse the sheets and deposit them at the side of the conveying means. 70

30. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and a plurality of devices for transferring the sheets from each of said pathways, one of said devices being constructed to deposit its sheets at the side of the conveying means and substantially in the plane of their path therein. 75 80

31. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, and a plurality of devices for transferring the sheets from each of said pathways, the devices for transferring the sheets from each of said pathways being constructed to deposit the sheets alternately at opposite sides of the pathway and in substantially the plane thereof. 85 90

32. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of devices for transferring the sheets from the conveying means, one of said devices consisting of an oscillating fly frame constructed to transfer its sheets widthwise of their path in the conveying means. 95 100

33. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of oscillating fly frames for transferring the sheets from the conveying means widthwise of their path therein. 105

34. A sheet delivery mechanism including in combination, means for conveying the sheets, and a plurality of oscillating fly frames constructed to transfer the sheets in opposite directions widthwise of their paths in the conveying means, the sheet engaging portions of said fly frames being arranged parallel with the line of movement of the sheets in the conveying means. 110 115

35. A sheet delivery mechanism including in combination, means for conveying the sheets, and means for transferring the sheets from the conveying means widthwise of their path of movement therein, the sheet engaging portions of said sheet transferring means being normally arranged in lines parallel to the line of movement of the sheets in the conveying means. 120

36. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of sheet pathways, means whereby the sheets are pre- 125

sented to the said pathways successively, and a plurality of devices for transferring the sheets from the conveying means, one of said devices being constructed to deposit its
5 sheets at the side of the conveying means.

37. A sheet delivery mechanism including in combination, means for conveying the sheets including a plurality of pathways, means whereby the sheets are presented to
10 the pathways successively, and a plurality of devices for transferring the sheets from the conveying means and depositing them at the side of the conveying means.

38. A sheet delivery mechanism including
15 in combination, means for conveying single sheets in flat form, and a plurality of devices for transferring the sheets from the conveying means to suitable points of delivery, said devices being constructed to deposit the
20 sheets in separate adjacent piles and to leave the top of said piles and the space between

them unobstructed whereby slip sheets may be readily inserted between the sheets deposited on each pile.

39. A sheet delivery mechanism including 25 in combination, means for conveying single sheets in flat form, a plurality of devices for transferring the sheets from the conveying means and depositing them in a plurality of unobstructed adjacent piles at each side of
30 the conveying means, whereby slip sheets may be readily inserted between the sheets deposited on the piles at each side of the machine.

In testimony whereof I have signed my 35 name to this specification, in the presence of two subscribing witnesses.

GEORGE E. PANCOAST.

Witnesses:

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JACOB MILLER