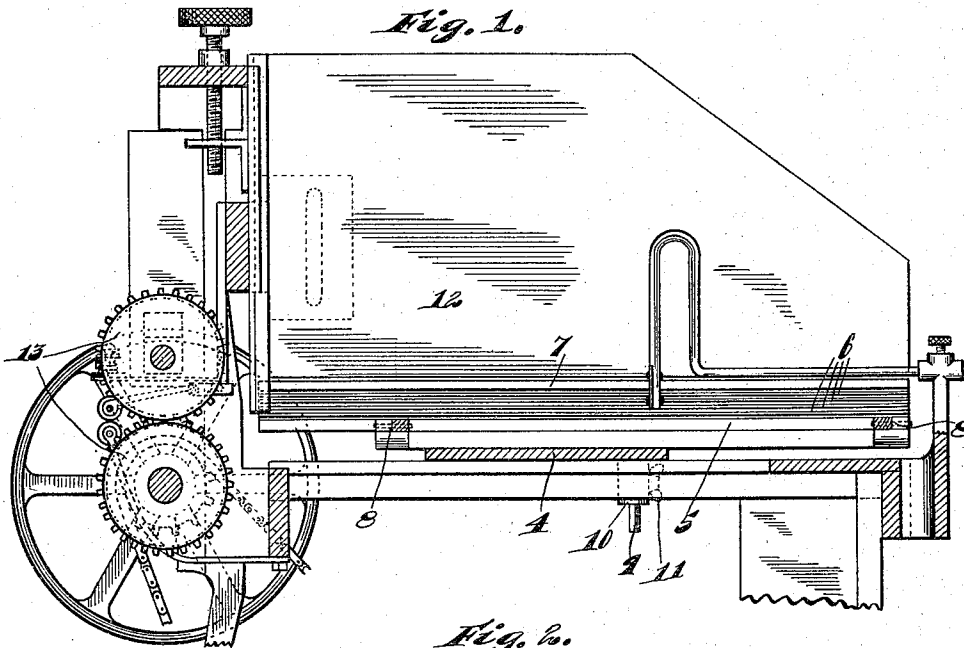
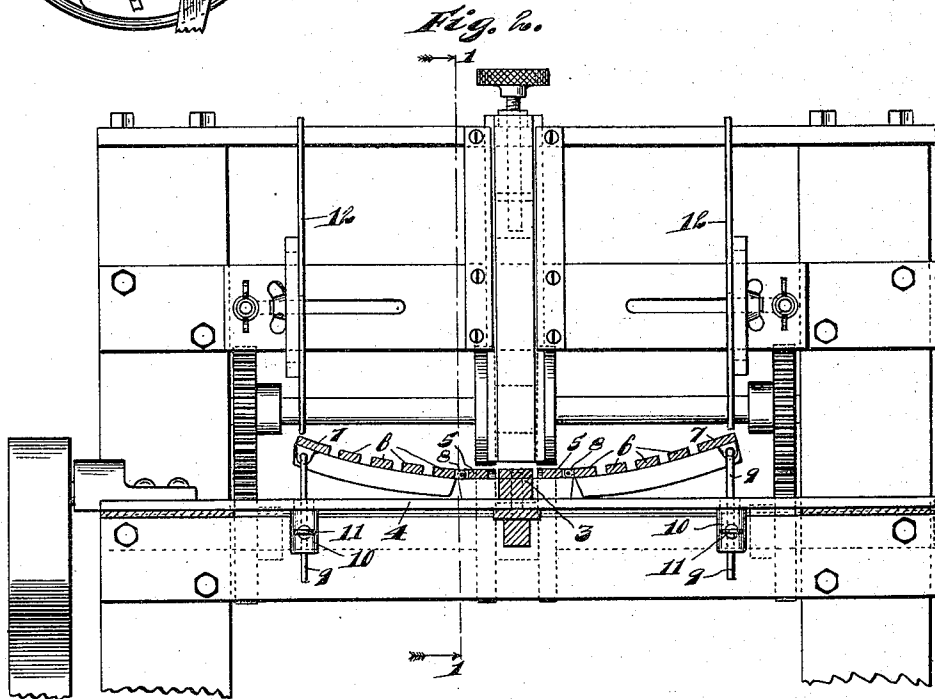


C. A. CHESHIRE.
 BASE PLATE FOR FEEDING MECHANISMS.
 APPLICATION FILED APR. 26, 1915.

1,147,482.

Patented July 20, 1915.



Witnesses:

C. E. Wessels.

B. G. Richards

Inventor:

Carey A. Cheshire,

By *Joshua H. Dorr*
 his Attorney.

UNITED STATES PATENT OFFICE.

CAREY A. CHESHIRE, OF CHICAGO, ILLINOIS.

BASE-PLATE FOR FEEDING MECHANISMS.

1,147,482.

Specification of Letters Patent.

Patented July 20, 1915.

Original application filed February 20, 1914, Serial No. 819,925. Divided and this application filed April 26, 1915. Serial No. 24,042.

To all whom it may concern:

Be it known that I, CAREY A. CHESHIRE, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Base-Plates for Feeding Mechanisms, of which the following is a specification.

My invention relates to improvements in base plates for feeding mechanisms, especially adapted for use in conjunction with book gathering machines, the present invention constituting a division of my prior application for book gathering and stacking machine, filed February 20, 1914, Serial No. 819,925.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing forming a part of this specification, and in which,

Figure 1 is a vertical longitudinal section taken through a feeding hopped equipped with a reciprocating base plate embodying my invention, said section being taken on substantially line 1—1 of Fig. 2, and Fig. 2, a vertical transverse section of said construction.

The preferred form of construction, as illustrated in the drawing, comprises a central longitudinal bar or slat 3 secured to the top of a reciprocating supporting bar 4 and associated with two parallel strips or bars 5 to constitute a central platform. The base plate is completed by adding sides to said platform, each of said sides consisting of longitudinal slats or bars 6 and 7 secured together to constitute a supporting frame and hinged to the central platform by means of hinges 8 to swing in planes substantially at right angles to the direction of reciprocation of the base plate. Each of the sides of the base plate carries a depending swinging link 9 operating through a clamping block 10 secured to the bottom of bar 4 and provided with a set screw 11 for clamping the same in adjusted positions. The base plate thus provided is arranged to constitute the bottom of a feed hopper 12 and serve as a means for delivering the bottom-most member of a stack of book signatures or similar articles in said hopper to feed rollers 13 arranged to receive the same, said

mechanism being more fully illustrated and described in my prior application, above mentioned.

By means of the arrangement specified, the curvature of the base plate may be varied as desired to adapt the same for the feeding of articles of different degrees of stiffness, it being obvious that the more flexible the article to be fed, the more readily it assumes a curved position and the more curvature is necessary to afford sufficient stiffness for feeding.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. A device of the class described comprising a reciprocating base plate curved transversely with respect to the direction of reciprocation; and means for adjusting the extent of curvature of said plate, substantially as described.

2. A device of the class described comprising a reciprocating base plate concaved downwardly and transversely with respect to the direction of reciprocation; and means for adjusting the extent of concavity of said plate, substantially as described.

3. A device of the class described comprising a reciprocating base plate, the sides of said plate being hinged to swing in planes substantially at right angles to the direction of reciprocation; and means for securing said sides in different positions, substantially as described.

4. A device of the class described comprising a reciprocating base plate, the sides of said plate being hinged to swing in planes substantially at right angles to the direction of reciprocation; links pivotally connected with said sides; and clamps for securing said links in different positions, substantially as described.

5. A device of the class described comprising a reciprocating base plate made up of a central rigid platform and sides hinged

to said platform to swing in planes substantially at right angles to the direction of reciprocation; links pivotally connected with said sides; and clamps for securing said
5 links in different positions, substantially as described.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

CAREY A. CHESHIRE.

Witnesses:

JOSHUA R. H. POTTS,
HELEN F. LILLIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."