

J. PRASKA.

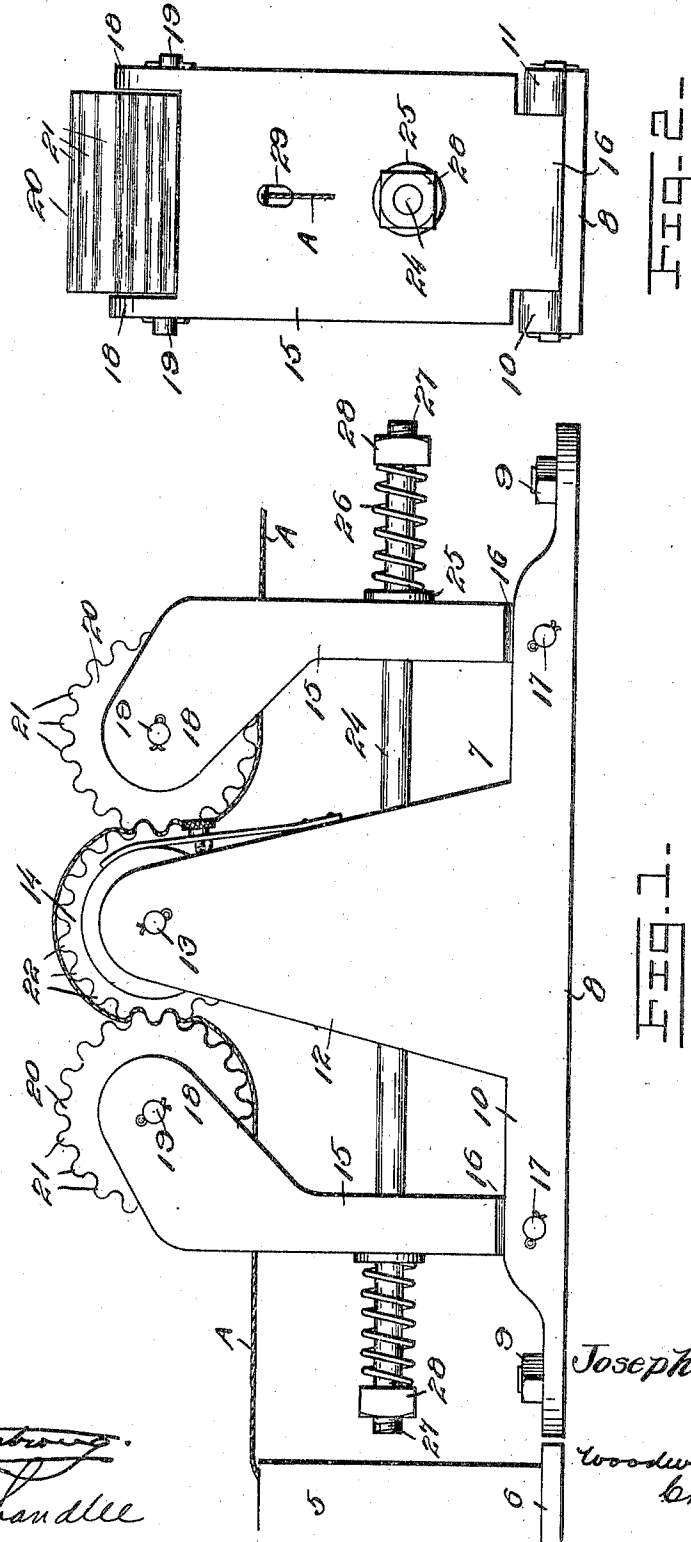
TWINE FEEDING DEVICE FOR GRAIN BINDERS.

APPLICATION FILED JUNE 23, 1908. RENEWED AUG. 10, 1909.

950,955.

Patented Mar. 1, 1910.

2 SHEETS—SHEET 1.



Witnesses
A. H. Cunningham
E. L. Chandler

Inventor
Joseph Praska,

Woodward & Chandler
Attorneys

J. PRASKA.
 TWINE FEEDING DEVICE FOR GRAIN BINDERS.
 APPLICATION FILED JUNE 23, 1908. RENEWED AUG. 10, 1909.

950,955.

Patented Mar. 1, 1910.

2 SHEETS—SHEET 2.

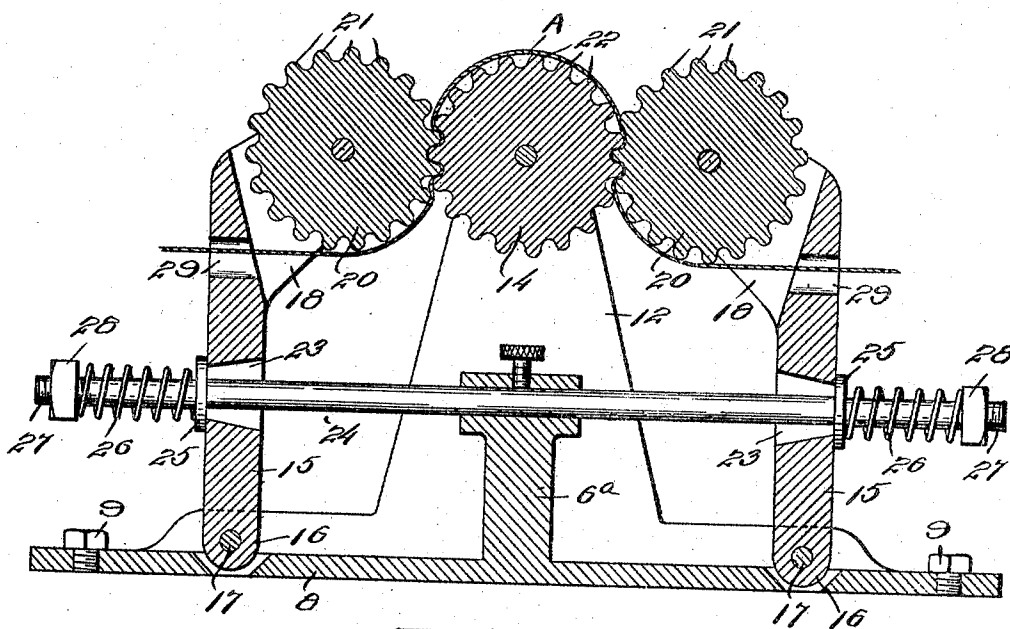


FIG. 3.

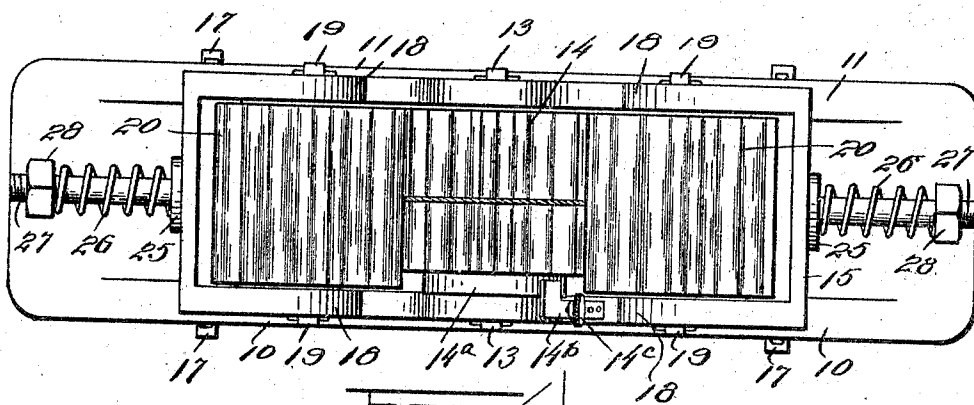


FIG. 4.

Witnesses
E. L. Chandler
E. L. Chandler

Inventor
Joseph Praska

By *Woodward Chandler*

Attorneys

UNITED STATES PATENT OFFICE.

JOSEPH PRASKA, OF CONWAY, NORTH DAKOTA.

TWINE-FEEDING DEVICE FOR GRAIN-BINDERS.

950,955.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed June 23, 1908, Serial No. 440,009. Renewed August 10, 1909. Serial No. 512,251.

To all whom it may concern:

Be it known that I, JOSEPH PRASKA, a citizen of the United States, residing at Conway, in the county of Walsh and State of North Dakota, have invented certain new and useful Improvements in Twine-Feeding Devices for Grain-Binders, of which the following is a specification.

This invention relates to the class of harvesters, and more particularly to grain binders, and has for an object to provide a twine feeding device which may be conveniently applied to binders of ordinary construction, and which will effectively serve to govern the output of twine when the device is in use.

A further object of this invention is to provide a device of the above described character whereby the twine will be held taut between the bundle tying mechanism and the twine holding receptacle, and to provide means for engagement with the twine, whereby it will yield should the mechanism of the binder become temporarily inoperative.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevational view of the present invention. Fig. 2 is an end view. Fig. 3 is a longitudinal sectional view. Fig. 4 is a top plan view.

Referring now more particularly to the drawings, there is shown a twine container 5 for grain binders, the same being in the form of a receptacle, but it will of course be understood that any suitable container or holder for the twine may be employed. The receptacle is mounted in any suitable manner to a binder as shown at 6 in the drawings, and is preferably located adjacent to the bundle tying mechanism of the binder not shown.

The binder is provided with a twine feeding device 7 consisting of a plate 8 secured to the binder by means of bolts or similar fastening devices 9 and which is preferably located adjacent to the twine receptacle previously described. The plate 8 is provided

with spaced flanges 10 and 11 respectively at its sides, and at the center, the plate is provided with spaced brackets 12. The brackets 12, adjacent to their outer ends receive a shaft 13 which carries a loosely mounted corrugated roller 14.

At each side of the brackets 12, the plate is provided with an arm 15 each having a reduced portion 16 at its lower end disposed between the flanges 10 and 11 respectively of the plate and which receives a pin 17 whereby the arm is pivotally mounted for a purpose to be hereinafter described. Each arm is provided at its upper end with spaced ears 18 which are directed toward the roller 14 and which receive the ends of a shaft 19 which thus supports a corrugated roller 20 similar to the roller 14, as shown. It will thus be seen that the teeth 21 of each of the rollers 20 are thus arranged for movement between the teeth 22 of the roller 14.

Each arm 15 is provided adjacent to its lower end and above its pivot pin 17 with an elongated passage 23, and disposed in these passages there is shown a longitudinally extending rod 24 having its ends disposed outwardly of the passages formed in the arms 15. The rod is provided with washers 25 arranged to bear upon the outer faces of the arms 15 and against which the inner ends of coil springs 26 are disposed which are carried by the rod 24. The ends of the rod 24 are threaded as shown at 27 and thus receive adjusting nuts 28 whereby the tension of the springs may be varied to govern the pressure of the rollers 20 against the roller 14, as will be readily understood.

Each arm 15 is provided adjacent to its roller 20 with a passage 29 arranged to receive the twine A from the receptacle previously referred to. It will thus be seen that the twine may be threaded through the passages 29 and wound between the rollers 20 and over the roller 14. It will of course be understood that the free end of the twine is connected with the tying mechanism of the binder. Should the tying mechanism of the binder become temporarily inoperative, or should the twine contained in the receptacle become knotted or tangled it is obvious that the twine between the receptacle and the tying mechanism will yield sufficiently to prevent breakage thereto.

The plate 6 is provided with a bearing bracket 6^a for the reception of the rod, and this bracket is provided with a set screw or

the like for engagement with the rod whereby it is held against sliding movement. It will thus be seen that the springs 26 may be used separately or in conjunction with each other at the will of the operator.

The roller 14 at one end is provided with an annular smooth face 14^a against which a leaf spring 14^b frictionally bears, which is carried by one of the brackets 12, and thus acts as a brake, as will be understood, and to vary the tension of the spring, I provide a set screw 14^c.

What is claimed is.

1. A twine tension device for grain binders comprising a bracket, a corrugated roller revolubly mounted in the bracket, pivoted arms located at opposite sides of the bracket, a corrugated roller mounted in each of the pivoted arms, said arms being movable upon their pivots to bring their rollers into and out of intermeshing engagement with the first named roller, and means for holding the pivoted arms yieldably with their rollers in engagement with the first named roller.
2. A twine tension device for grain binders comprising a stationary bracket, a rev-

oluble corrugated roller carried by said bracket, swinging arms located adjacent to said bracket, a roller carried by each of said swinging arms, and spring means engaged with said swinging arms for holding their rollers yieldingly engaged with the first named roller.

3. A twine tension device for grain binders comprising a stationary bracket, a revoluble roller carried by said bracket, swinging arms located adjacent to said bracket, rollers carried by said swinging arms for engagement with the roller carried by said bracket, said swinging arms having passages, a rod having threaded ends disposed in said passages, adjustable nuts carried by said rod, and springs carried by said rods and disposed between said swinging arms and said nuts respectively.

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

JOSEPH PRASKA.

Witnesses:

CHAS. E. VAN ARSDALE,
JOHN H. BIRKHOLZ.