

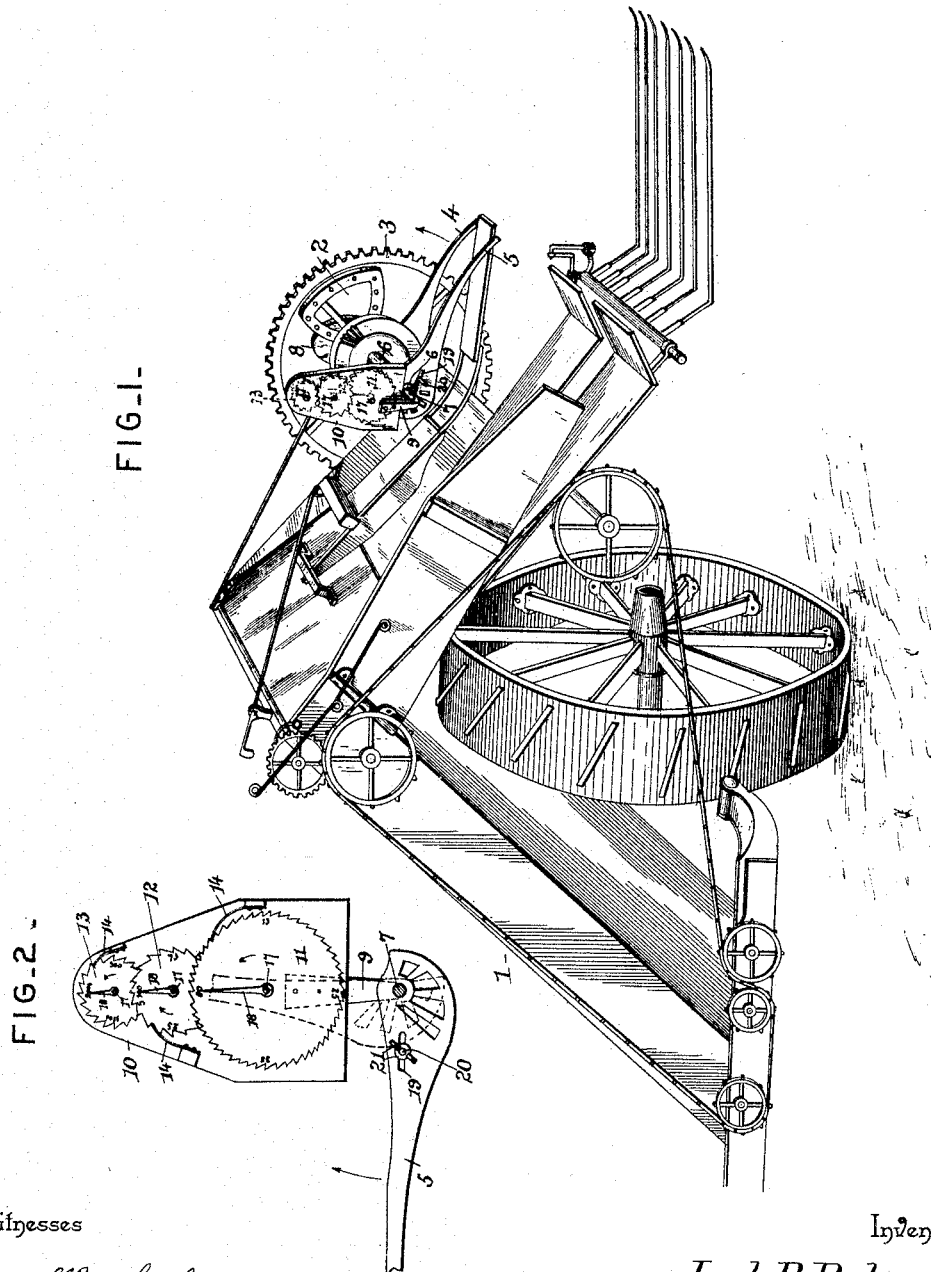
(No Model.)

2 Sheets—Sheet 1.

J. P. ROHN.
SHEAF REGISTER FOR HARVESTERS.

No. 492,109.

Patented Feb. 21, 1893.



Witnesses

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Inventor

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FIG. 3.

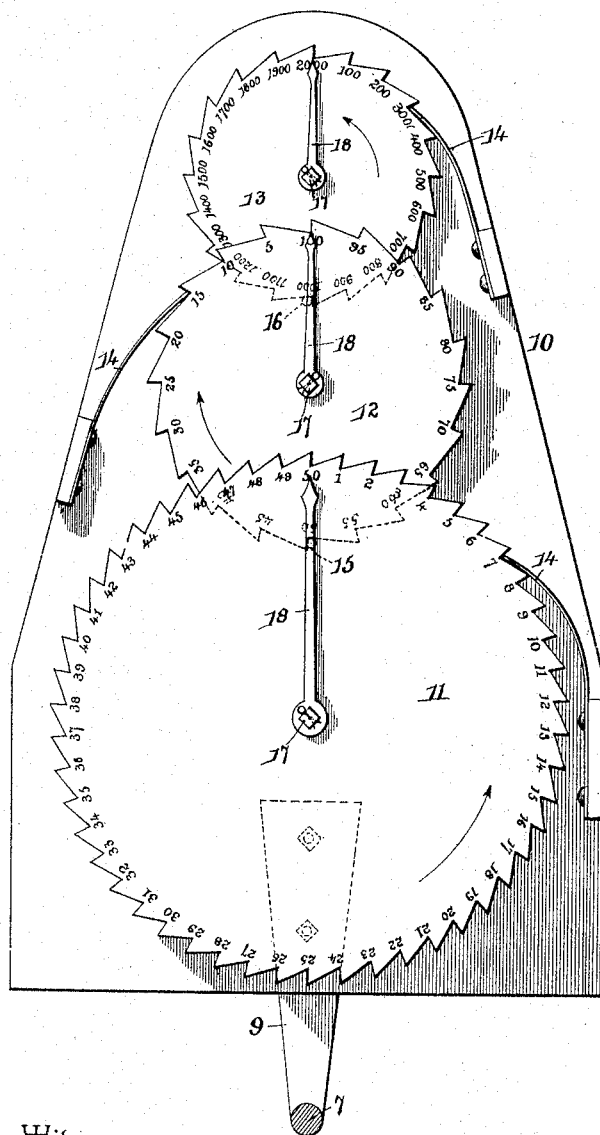
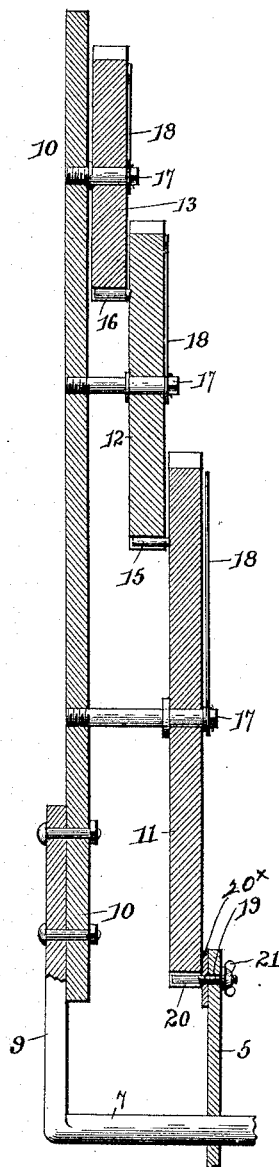


FIG. 4.



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UNITED STATES PATENT OFFICE.

JACOB P. ROHN, OF EASTON, PENNSYLVANIA.

SHEAF-REGISTER FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 492,109, dated February 21, 1893.

Application filed July 19, 1892. Serial No. 440,505. (No model.)

To all whom it may concern:

Be it known that I, JACOB P. ROHN, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented a new and useful Sheaf-Register for Harvesters, of which the following is a specification.

This invention relates to registering attachments for harvesters and the like adapted for registering the number of bundles or sheaves tied or bound by an ordinary mechanism for this purpose, and consists of the construction and arrangement of parts as will be more fully hereinafter described and claimed.

The object of this invention is to provide a device of the character set forth applicable for use in connection with harvesters or analogous devices for the purpose of keeping tally of and ascertaining the amount of work done by the machine, the parts thereof being simple and effective in their construction and operation and easily and readily applied.

In the drawings:—Figure 1 is a perspective view of a harvester showing the improved device applied in connection therewith. Fig. 2 is a detail view of one of the arms detached and showing the position of the improved device relatively thereto and looking toward the side opposite to that shown by Fig. 1. Fig. 3 is an elevation of the device detached shown on an enlarged scale. Fig. 4 is a transverse central vertical section of the device shown by Fig. 3.

The same numerals of reference are employed to indicate the same or corresponding parts in the several figures.

Referring to the drawings, the numeral 1, designates a harvesting machine as shown, though it will be understood that other machines of suitable construction may be employed or have the improved attachment applied thereto and in the present instance a part of a knotting mechanism 2, is illustrated together with a gear 3, and arms 4 and 5, forming the bundle or sheaf arms and all mounted on a tubular shaft 6. The shaft 6, is rotatable and therethrough extends a rod or bar 7, forming a dead shaft which is secured at its outer end to a bracket 8, suitably affixed to the frame of the machine, and at the inner end the said rod or bar is bent upward at an angle as at 9, and secured thereto is a vertical sup-

port 10. The said support 10, carries three ratchet or toothed wheels 11, 12, and 13, the wheel 11 slightly overlapping the wheel 12, and the wheel 12 in like manner slightly overlapping the wheel 13, and each of the wheels is provided with a spring stop finger or pawl 14, properly positioned and engaging said wheels relatively to the rotation thereof. These wheels 11, 12, and 13, serve as means for an individual and collective register and are arranged to operate in progression, the wheel 11 designating units; the wheel 12, tens; and the wheel 13, hundreds.

Each of the wheels set forth, is in the form of a dial and the lower wheel 11, is provided with fifty teeth and so numbered, and each of the wheels 12 and 13, is supplied with twenty teeth and of course vary in dimension as the wheel 13 is smaller than the wheel 12. The teeth of the wheel 12 are numbered from "5" to "100," and the wheel 11 makes one entire rotation before the wheel 12 has moved a distance of one tooth, the movement of the latter wheel being accomplished by a pin 15, projecting from the rear of said wheel 11, and in the path of rotation of the teeth of the wheel 12. In like manner the wheel 12, makes an entire rotation before the wheel 13 has moved a distance of one tooth, and the movement of the latter wheel is in like manner accomplished by a pin 16 projecting from the rear of the wheel 12 and rotating in the path of the teeth of the said wheel 13. Each of the said wheels is mounted on a stationary arbor or shaft 17, to which is fixed an index hand 18, which at all times is vertically positioned and immovable and the operation thereof will be readily understood. It will be also understood and as fully illustrated, that the wheel 13 has the teeth thereof designated by numerals running from "100" to "2,000," and further, that the wheel 12 will revolve in a direction opposite to the wheels 11 and 13.

The inner arm 5, is formed with a slot 19, in which is adjustably fitted a pin 20, having the end thereof projecting inward a suitable distance in order to pass the adjacent edge of the support 10 and engage the teeth of the wheel 11. This operation takes place when the arms elevate to engage the bundle or sheaf and the adjustment of the pin 20, will be necessary to properly position the same

relatively to the teeth of the wheel 11, in proportion to the volume or dimension of the bundle or sheaf and also to the adjustment of the parts to which the improvement is attached. The secured end of the said pin 20 is engaged by a clamping or winged nut 21 bearing against the outer side of the arm 5, as clearly shown in Figs. 2 and 4, and the pin has a screw-threaded washer 20^x applied to the threads thereof on the opposite side of the arm 5, and by this means the said pin is held in its adjusted position.

By means of the device heretofore described the number of sheaves or bundles operated upon by the machine can be automatically tallied and the amount of work performed be readily ascertained. The parts are positive in their action and owing to the simplicity of structure can be readily applied to any machine without interfering with the operation of or changing the character of the mechanism of said machine and form a valuable addition to mechanism of the character set forth.

In harvesting ten sheaves or bundles are computed to be equal to one shock and by the

arrangement of the device hereinbefore set forth the registration of the number of shocks will result as will be readily understood and which is desired to be obtained.

Having thus described the invention, what is claimed as new is—

In a device of the character set forth, the combination of a swinging arm provided with a slot and having an adjustable pin mounted in said slot, a nut engaging one side of said pin, and a washer on the opposite side or end thereof, and a series of wheels overlapping each other and formed with teeth adapted to be engaged by pins carried by a portion thereof, the said wheels being arranged in direct vertical alignment and the units or lowermost wheel being operated by said pin adjustably carried by the said swinging arm, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JACOB P. ROHN.

Witnesses:

JNO. H. SIGGERS,
CHAS. S. HYER.