

THE TORONTO BINDER SHEAF CARRIER.

The Binding Apparatus on the Light Toronto is similar to all others, but it has various improvements and choice adjustments over them all.

The Adjustable Stripper for removing the Cord from the Bill Hook, performs an important service in knotting, by simply unloosing the Nut and moving forward or backward the Knife and Hook end, the patent slot permitting of an adjustment to a hair's breadth, the knife can be set right to the spot, the nut tightened up, and all done in a moment without injury.

The Cam Spring that opens and closes the Bill Hook plays a part fully as important as the Stripper, and much in the same way, for it is by the most careful adjustment of the Clamp or Cam that the Tongue on the Bill Hook opens and closes to receive and discharge the knot. By the aid of our patent Cam Spring so easily set for a light or strong pressure against the Bill Hook by means of the Nut and Coil Spring not even requiring its removal from the knotter. This point is absolutely a "Toronto" one only, and is worth a great deal on any machine.

The Double take up of the Cord prevents the Cord falling off the point of the Bill Hook on the return of the Needle Arm.

The Weight Trip which has been used on the Toronto for the past three years is a decided improvement over the bulk or compress finger trip, the former always deciding the size of the sheaf by the weight; that is, where the grain is ripe, straw dry, a much larger sheaf will be bound without any adjustment than when it is damp or green, a double advantage being obtained, that in dry grain a much less quantity of twine is required, whilst in the green there is less danger of heating in the sheaf. Moreover, by the use of the double compress on other Binders the twine is not passed round the sheaf at the point where it is most tightly pressed, the Needle Arm passing between the double compress Fingers, whilst the single compress on the Toronto allows the Needle Arm to pass the twine directly alongside the Compress Finger, thus tying the sheaf at the smallest possible point. Result: less twine and a more tight and sheaf, with less tension on the cord.

The Binding Attachment can be instantly adjusted by the driver when on his seat to bind short or long grain, without the use of a canvass butter found on other Binders. It not only takes a great amount of power and extra gearing to run these butters, but they are in every respect a nuisance, as all will admit. On the Toronto such old time methods of carrying grain to the knotter is used. On the Binding Table a third packer is used, working in unison with the first, which takes the grain down to the Knotter squarely and evenly, the latter being placed in position to receive the grain of any length, and with this adjustment the shortest to the longest grain can be bound without "slobbering," as it is usually called by our farmer friends.

The new departure in the style of running gear in the Toronto Light Binder is beyond a doubt the simplest and best in use, making it the only single geared Harvester Binder in the market. The bearings for the crank and intermediate gear shafts are of hardened bushes, all carefully turned and bored to an exact gauge, and placed in iron brackets upon the frame, which, together with the great advantage of their being adjustable, causes free and easy running of all the wearing parts. They are constructed in such a manner as to make them interchangeable and are easily duplicated when any wear occurs. These are very important features in the construction of a Harvester Binder, and will not be overlooked by the intelligent farmer when purchasing. He knows full well the necessary wear and tear there are on these parts, causing great annoyance and heavy draft. This is entirely overcome in the Toronto Binder, and whilst very little wear will in this respect be found on this machine, yet when it does occur it can be quickly and easily remedied by the insertion of a new bush.

On pages 14, 15 and 16, also in Supplement, will be found part of the testimonials received from farmers using this Binder and to which we call your attention. Many more will appear in our annual catalogue.

The "Toronto" Method verses Other Raising and Lowering Devices.

Much has been said by our competitors on this subject when advantageous points of a machine have been discussed, and the question has been whether it is better to be able to lower the inside frame of a Harvester Binder by the use of the old time sectors and standards when requiring to cut low or pick up lodged grain. Or is it better to be able to adjust the machine to all conditions of grain and ground without all this paraphernalia of sectors, standards, chains, bolts, and other innumerable.

We claim it is much better to do with as little machinery and as few complicated parts as possible, and to accomplish this the Toronto Binder has been so constructed as to do away with all these unnecessary parts and at the same time it is operated with more ease and is under much better control of the driver when desiring to change the height of cut or to pass obstructions, and by the use of one lever only the driver can instantly lower the cutters from any height to cut closer than any other Binder.

The question arises, How is it possible to operate a machine in this way? And every competitive agent will say it can't be done, at the same time they know to the contrary. It can be and has been done with the "Toronto" for the past three seasons. The gear of the Binding Apparatus is located at the rear of the machine in place of the front, as on most others, giving the machine a more perfect balance and relieving the horses of all unnecessary weight. The relative position of the wheels allows for the immediate control of the Binder with one lever only, and with the manner in which the steel cutter bar is attached to the whole machine permits of it being raised to cut the height desired, or lowered to cut a stubble as close as a mowing machine, and can be operated to pass obstructions. This feature is purely "Toronto" and remember the Toronto Binder in 1881 used these old style sectors and standards for lowering devices as used on all other Binders to-day, which we have gladly discarded as a thing of the past.

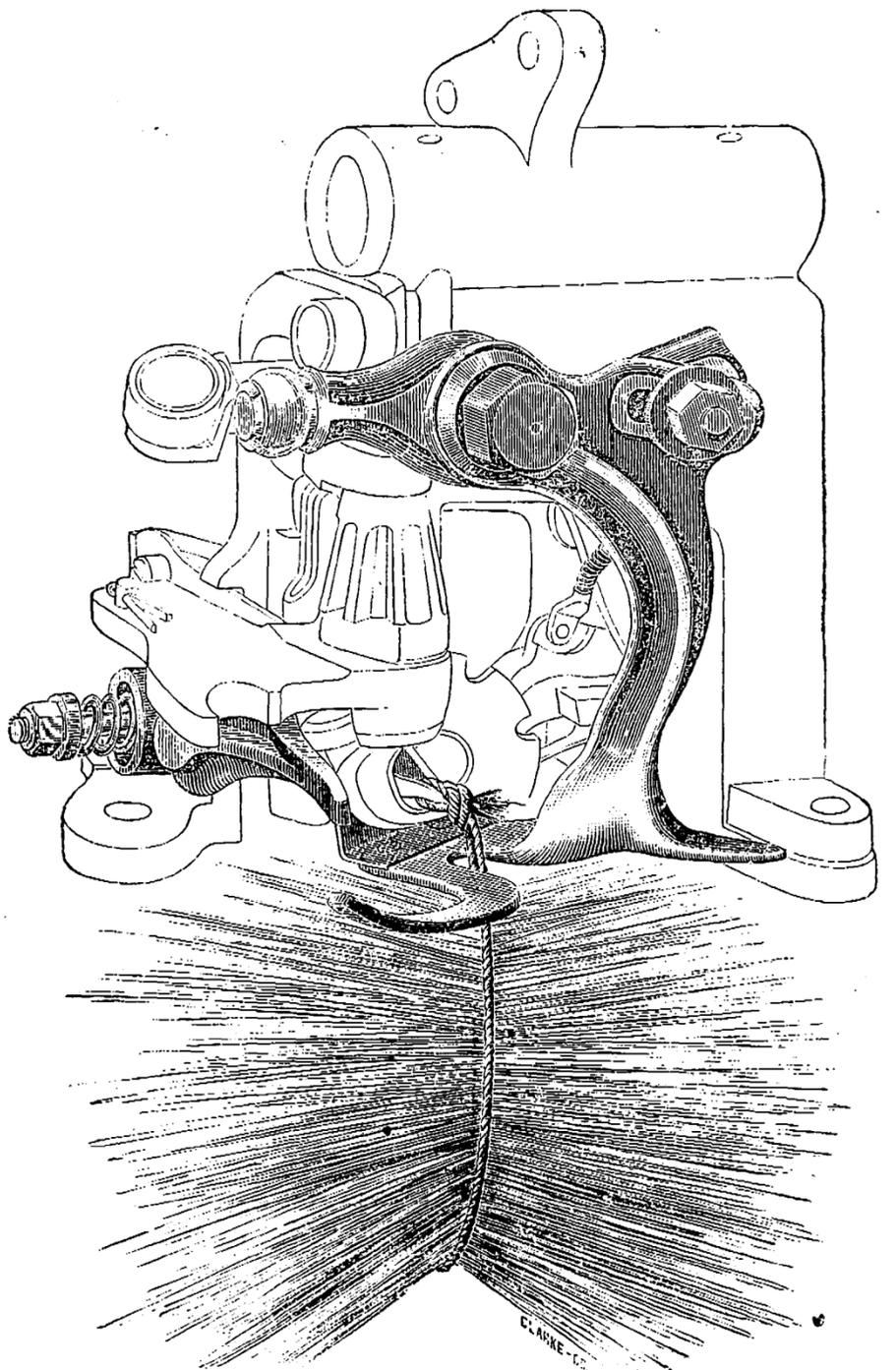
We believe that every manufacturer would gladly dispense with these contrivances if the general construction of the machine would admit. The disadvantages in the use of them are many and the annoyance more. In such cases where a field is mixed with standing and badly lodged grain, to do the job neatly and well it is about necessary to stop the team at such change in the grain to raise and lower

the machine as required, by the use of some two or three levers, which frequently requires a muscular man to accomplish. When the platform is put in this lowered position it drags very heavily on the stubble and rough ground. The sill of the cutter is usually so low that it will not admit of much tilt without ploughing the ground, and it is known that no machine can cut down grain when in this flat condition. It is necessary to have a fair tilt to handle it well, and when all this can be accomplished with the "Toronto," without so many unnecessary trappings and so much labor and liability of giving way of chains, ratchets, etc., causing so much loss of valuable time and of temper, we would suggest to buy nothing else but a Toronto Binder, which is pronounced by all to cut closer and easier, elevate more freely the heaviest grain, and knots surer than any other.

The Toronto Sheaf Carrier Attachment.

Pronounced all right and a great Labor Saver.

Up to the present time no other Sheaf Carrier Attachment has been upon the Canadian market, and the Toronto Binder is so constructed that it can be put on at any time. Most of our customers last year ordered this attachment and found it to work admirably, all claiming that it saves fully the labor of one man in the field when stooking. Its mode of operation is easy to the driver. The Carrier is attached to the frame of the Binder, swinging under the knotter and into which is ejected the bound sheaves. It is capable of holding from three to six bundles or sheaves. When full it is dumped by the driver from the seat, a handle being conveniently placed near him for that purpose, leaving the sheaves in a windrow, as shown in the engraving on this page, in about the same manner as would be done in raising hay. You will readily perceive the great advantages in using it, and how much valuable time and labor is saved in stooking the grain. Every farmer using it says it is worth \$50 on any machine, and it is a fact.



THE TORONTO KNOTTER.