

BALL'S KEYSTONE MOWER AND REAPER,

AS A REAPER AT WORK—FRONT VIEW.



WITH JOHNSON SELF-RAKE.

G. D. Krall Lebanon

BALL'S KEYSTONE Reaper and Mower,

WITH THE

IMPROVED JOHNSON SELF-RAKE,

MANUFACTURED BY THE

Reese, Staats & Melick Manufacturing Co.

PHILIPSBURG, N. J.

PHILADELPHIA:

SPANGLER & DAVIS, STEAM-POWER BOOK AND JOB PRINTERS,

527 and 529 Commerce Street.

1873.

BALL'S LATEST Improved Keystone Mower and Reaper WITH THE JOHNSON SELF-RAKE.

This machine has been greatly improved for the harvest of 1873, and made very light and strong. It was thoroughly tested last season, and gave entire satisfaction; for lightness of draught and durability it has no superior among the many machines in the market. The Mowing and Reaping attachments are entirely separate, which enables the farmer to change from mowing to reaping in five minutes, making a good single mower and one of the very best combined machines in use.

There have been more sold of them within the last two years, in the country where the machine was introduced, than all others put together, and the universal satisfaction given is unparalleled by any other machine.

The farmer will say, how is it that your machine is better than any other? Because:

1st. As a reaper, we have two wheels.

2d. We have hinged cutter-bar, which will adapt itself to all uneven surfaces of the ground, and will work on any side-hill.

3d. We have a lever for raising and lowering the Cutter-bar while the machine is in motion, at the option of the driver. He can drop it down where grain is flat on the ground, and the Rake will pick it up so the knife can go under it and cut it clean.

4th. The improved Johnson self-rake as manufactured by us and used in the harvest of 1870, '71 and '72, gives the driver complete control of the rakes, and enables him to make the sheaves or gavels of a uniform size.

5th. The Johnson Rake has less gearing about it than any other; there is no cog gearing about it, being driven by a chain from the main axle of the machine to the shaft of the rake, requiring no more power to drive it than the ordinary reel, therefore we have no trouble of our rake getting out of order, as others have had.

6th. We have an Adjustable Tongue, so as to avoid all side draft, and have no weight on the horse's neck, to worry the team.

7th. It is the strongest and most durable machine to be found in the market.

8th. It is very easily changed from a Reaper to a Mower.

9th. Take off your Reaping Attachment you have just as good a Mower as there is to be found among the single Mowers.



BALL'S IMPROVED KEYSTONE MOWER.

AT WORK.

With this Mower you have a very easy draught, and a rolling Finger Bar which is adapted to rough, stony ridges or boggy grounds, better than any other machine in use. You have also a Folding Bar that folds over flat on your frames for transportation, and can be drawn anywhere, as will be seen by referring to the cut on the next page.

The superiority of the Ball's Keystone Mower cannot be regarded as a matter requiring discussion. The *universal* favor with which it is received by practical farmers wherever introduced, and the fact that other machines, even those claiming to be "standard machines," are constantly, year by year, approximating more and more nearly to the arrangement of parts of this machine, furnish conclusive evidence that the principles embraced in the Ball, are absolutely essential in a perfect harvester.

• Some of these distinct features we will briefly state:—

1. The flexible, or double-jointed Cutter-bar, permitting the cutters to follow the inequalities of surface, and cut closely and evenly over ridges and through hollows and ditches. When not in use, the Cutter-bar is folded securely and compactly over the frame.



BALL'S KEYSTONE MOWER ON THE ROAD.

2. The extreme simplicity in the construction and arrangement of the several parts, renders it less liable to get out of order than any other mower.

3. The whole weight of the machine rests upon the wheels, both of which are driving wheels, and every pound of weight is utilized for power.

4. The finger bar is in rear of the driving wheels, thus enabling the driver to see obstructions and avoid them; prevents the danger of a fractious or frightened horse cutting his heels; and when striking any obstruction does not throw the driver from his seat, as is the case in all front bar machines.

5. The rolling motion of the guard points allows the points of the guards to rise over hillocks and uneven surfaces, instead of running into them and dulling the knives.

6. The speed of the gearing and the size of the cutters are so nicely adjusted as to secure the maximum of power with the minimum expenditure

of force which enables the farmer to favor his team by driving slowly. A yoke of oxen will work Ball's Keystone readily where other machines would fail. This, together with the arrangement of the cutter-bar, *drawing up* instead of *pushing down*, gives it more power and a steadier motion than any front bar machine, and renders it *the lightest draught mower in the market*.

BALL'S KEYSTONE MOWER PASSING OBSTRUCTIONS.



The improved Keystone Mower is presented to the farming community for the season of 1873, with the assurance, that while in principle it is beyond all competition, in workmanship and material it shall be second to none.

With each machine will be furnished two complete scythes, one extra knife section, one extra guard finger, wrench, oil can, rivets, whiffletrees, evener and neck-yoke.

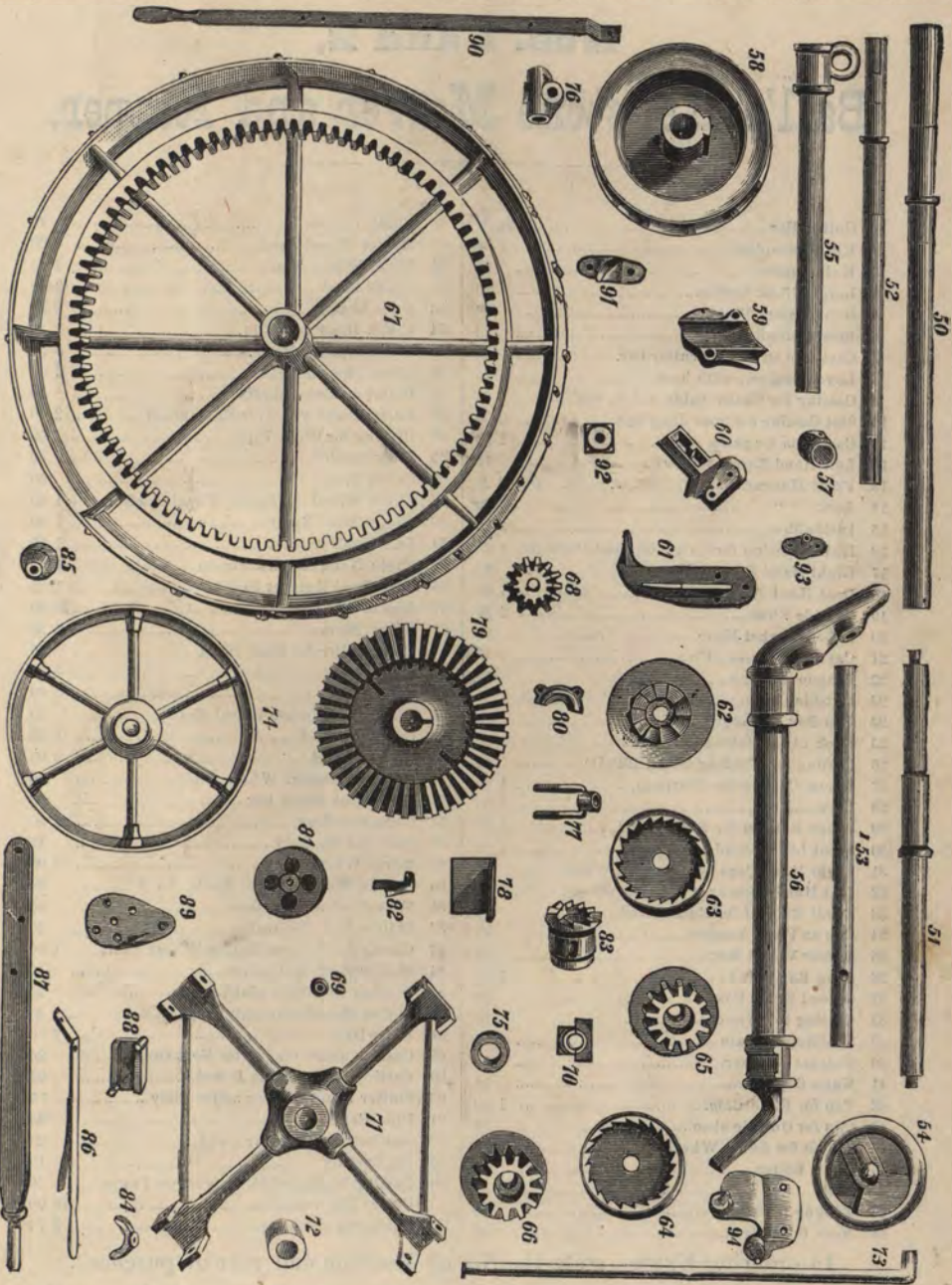
Cut of Extra Parts of Ball's Keystone Mower and Reaper.



The Improved Keystone Mower is presented to the farming community for the season of 1878, with the assurance that while in principle it is beyond all competition in workmanship and material it shall be second to none. With each machine will be furnished two complete sets of blades, one extra knife section and extra shaft, lever, oil can, rivets, washers, crosser and neck yoke.

PRICE LIST OF EXTRAS

Cut of Extra Parts of Ball's Keystone Mower and Reaper.



PRICE LIST OF EXTRAS

FOR

Nos. 1 and 2,

Ball's Keystone Mower and Reaper.

No.		No.	
1	Cutter Bar.....	49	Chain Carrier.....
2	Knife, complete.....	50	Master Wheel Shaft.....
3	Knife section.....	51	Bevel Wheel Shaft.....
4	Large Blank Section.....	52	Crank Shaft.....
5	Guard, Steel Plate.....	53	Rake Shaft.....
6	Small Blank Section.....	54	Crank Head with Pin.....
7	Cast Cap on heel of cutter bar.....	55	Stand Pipe for Rake.....
8	Lever Casting, with hook.....	56	Cross Pipe for Rake.....
9	Casting for Chain Guide, not in cut.....	57	Collar on Rake Shaft.....
10	Slot Casting for front drag bar.....	58	Large Sheaf wheel for Rake Shaft.....
11	Cast Arm for grain wheel.....	59	Casting for Cross Pipe.....
12	Left Hand Ratchet Pawl.....	60	Body Ratchet.....
13	Front Hanger.....	61	Chain Picker.....
14	Back ".....	62	Chain Wheel on Master Wheel Shaft.....
15	Inside Shoe.....	63	Right Hand Ratchet.....
16	Inside Casting for Cutter Bar and Platform.....	64	Left Hand Ratchet.....
17	Right Hand Ratchet Pawl.....	65	Right Hand Ratchet Pinion.....
18	Goat Head for Rake Arm.....	66	Left Hand Ratchet Pinion.....
19	Outside Shoe.....	67	Master Wheel.....
20	Lifter Ratchet Hoop.....	68	Bevel Pinion.....
21	Casting for back lifter.....	69	Rake Roller for Goat Head.....
22	Tongue Casting.....	70	Brass Box for Crank.....
23	Outside Casting for cutter and platform bar.....	71	Spider.....
24	Cap-Box on hanger, Babbited.....	72	Washer on Master Wheel Shaft.....
25	Back Lifter Ratchet.....	73	Connector Rod.....
26	Casting for dividing Board Handle.....	74	Grain Wheel.....
27	Elbow Casting for Platform.....	75	Collar on Master Wheel Shaft.....
28	Cam.....	76	Casting on Brace bar.....
29	Large Ratchet for Rake Stand.....	77	Connector Fork.....
30	Front Lifter stand.....	78	Cast end for Body.....
31	Right Hand Caps over Ratchet Wheel.....	79	Bevel Wheel.....
32	Left Hand Caps over Ratchet Wheel.....	80	Cap for Master Wheel Shaft, No. 2.....
33	Small Ratchet for Rake Stand.....	81	Wheel for outside shoe.....
34	Cap on Front hanger.....	82	Shifter Fork Malleable.....
35	Master Wheel Box.....	83	Clutch for Rake or Master Wheel Shaft.....
36	Drag Bar Stand.....	84	Shifter Fork, Malleable.....
37	Second Shaft Box.....	85	Washer on outside platform.....
38	Casting to carry chain.....	86	Shifter Handle through body.....
39	Whiffletree Plate.....	87	Brace Bar.....
40	Ratchet Washer.....	88	Casting under tongue for Foot Iron.....
41	Knife Caps.....	89	Casting for Dividing Board.....
42	Pop for Rake Cam.....	90	Shifter Iron for Rake under Body.....
43	Cap for Outside shoe.....	91	Pipe Casting.....
44	Clutch for Bevel Wheel.....	92	Ratchet for Drag Bar Stand.....
45	Rake Roller.....	93	Oil Casting.....
46	Seat.....	94	Casting for Rake Shifter, goes on Frame.....
47	Tongue Socket.....		Cutter Bar complete.....
48	Nose Board Iron.....		Connector complete.....

In ordering Extras, state the No. of Machine and year of purchase.

Keep the knives sharp, the bearings well oiled **with good oil**, and the nuts screwed tight.

BALL'S KEYSTONE REAPER AND MOWER,



AT WORK—REAR VIEW.

With Jonhson Self-Rake Attachment.