

1888.

J. F. PAUL, President.

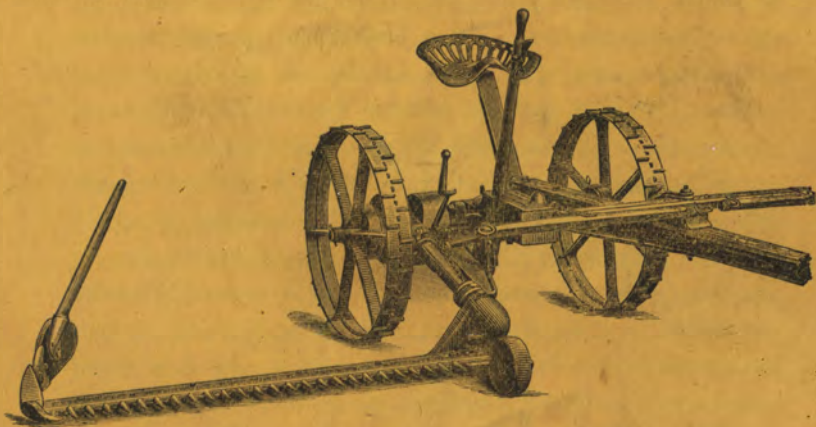
E. C. PIKE, Treasurer.

J. O. BROWN, Superintendent.

THE
Brown Self-Sharpening Endless Mowing Machine

EMBRACES

SIMPLICITY, DURABILITY, LIGHT DRAUGHT
AND LOCK-CHAIN CUTTER.



MANUFACTURED AND FOR SALE BY THE

BROWN SELF-SHARPENING MOWING MACHINE CO.

OFFICE AND FACTORY,

ERNEST G. AISENBECK,
No. 365 ALBANY STREET, BOSTON, MASS.

TELEPHONE 4269.

T H E

BROWN SELF-SHARPENING MOWER

Is now recommended to farmers and others interested, with perfect confidence, as during the past six months it has undergone the severest trials and tests, and in every case has performed its work perfectly, and elicited the strongest testimonials, voluntarily, from those who have used it or have seen it work. The principle involved in this machine has long been sought for by builders of mowing machines and others without success ; and it remained for Mr. J. O. Brown, a practical farmer as well as machinist, to originate and perfect the first *radical improvement* in mowers and reapers that has been made in thirty years. It is well known by farmers, as well as manufacturers of mowing machines, that the old style of reciprocating knives requires an immense power to do their work, hence they are hard on the horses, and they are hard and rough for the driver, while the field is left in a rough condition compared with the work of the endless movement, which leaves the ground as smooth as a lawn. It is also well known to farmers that there are many conditions under which the old style machine cannot do satisfactory work ; it must necessarily clog at times ; while the self-sharpener never clogs, requires not more than two thirds of the horse power, rides easy as a buggy, and almost noiselessly ; sharpens itself at the will of the driver without stopping, and leaves the ground (under all or any conditions) as smooth as a lawn.

Mr. Brown has spent nine years in perfecting this self-sharpening machine, having first patented what is known as the "Brown Endless Cutter Mower"; but finding that it did not fulfil all the requirements of a *perfect mower*, has now given us a wonderful improvement in the "self-sharpener," which is called by many practical men one of the greatest inventions of the age.

This company has been duly organized under the laws of the State of Maine, and will at once commence the manufacture of mowers and reapers in the city of Boston. None but the very best material will be used in every department of manufacture, and the company will have no hesitation in warranting their machines as superior to any other now before the public.

ADVANTAGES CLAIMED

FOR THE

BROWN SELF-SHARPENING MOWER.

First. Simplicity in construction.

Second. Easy draught and steady running.

Third. Does not shake the machine or driver as the old style does.

Fourth. Short knives and close guards, which make it impossible to dull or break knives by stones, and less liability to injure either man or beast.

Fifth. The self-sharpening device.

Sixth. The new style of lock chain.

Seventh. It has less liability to get out of order.

Eighth. It has no pitman rod.

Ninth. All parts of the cutter-bar are adjustable to wear.

DESCRIPTION

OF THE

BROWN SELF-SHARPENING MOWER.

It has a general resemblance to the old style reversing machines, but a glance will be sufficient to detect the improvements. It is very simple, as there are but two drive-wheels and top and main frame and wrist above the cutter-bar. The power is taken direct from a cluster of inclosed gear to the inside shoe and connected there with a sprocket-wheel four inches in diameter. The knives are attached to a chain that runs over a pulley at the outer end of the cutter-bar, which is two inches in diameter, making a taper from the inside shoe. The fingers are two and a quarter inches from centre to centre, and are made of malleable iron, with steel plates that are of the right temper to stand the wear. The finger has a half-globe-shaped wheel that is riveted in the centre and hangs directly over the position of the knives. The half-globe wheel being corrugated on the under side, when the machine is in motion and the knives passing from one guard to the other, the grass or grain is brought against the back edge of the wheel, causing it to turn and thus aid the grass to form for the cutting of the next knife, and preventing possibility of clogging under any circumstances.

The cutter-bar is attached to an entirely new style of sprocket-chain which bends but one way, and thus presenting a perfectly

rigid side to the knives when the cutting edge comes to the grass, and yet the chain is a very flexible one, not requiring a yielding spring at the outer end to allow the chain to run freely, but runs as free over a pulley or sprocket-tooth wheel as a belt.

Should a knife need replacing, they may be carried in a vest pocket and replaced in the field with very little loss of time.

All parts of these mowers that wear and affect the working of the machine are adjustable, especially so in the cutter-bar; the top plate over the knives that holds them down to the guards is so arranged that the wear can be taken up and keep the cutter in good condition until the top iron plate is worn out. The smooth pulley at the outer end of the bar is so attached as to take up the wear of the chain.

The bearing at the inside of the bar that holds the sprocket-wheel and bevel gear is filled with friction-wheels, so they need but little attention or to be oiled very often.

THE "SELF-SHARPENER"

Is so arranged that the operator merely places his foot on a lever which brings a file or piece of emery — as may be used — in contact with the knives as they pass around the sprocket-wheel, which is set at the same bevel as the knives. When the knives are sufficiently sharp the driver has only to lift his foot. Farmers will at once see that this simple device saves much time and labor.

PRICES OF BROWN SELF-SHARPENING MOWER.

3 feet 6 inches (one horse)	\$65.00
4 feet 6 inches (two horse)	75.00

TESTIMONIALS

Voluntarily sent to this company on practical trial of our machines : —

SALEM, Aug. 15, 1888.

Gents, — I have examined and tried "Brown's Self-Sharpening Mowing Machine," and I can recommend it with great confidence. It cuts easily and smoothly, and does not clog even in the finest and most tangled grass. I think it will be a most valuable addition to the class of agricultural machines to which it belongs.

Truly yours,

GEO. B. LORING,

Ex U. S. Commissioner of Agriculture.

EASTON, MASS., Aug. 15, 1888.

THE BROWN SELF-SHARPENING MOWING MACHINE COMPANY:

I was well satisfied with the machine you loaned me for trial. Although mowing on rough bottom, with all conditions unfavorable for good mowing, it worked easily and well, and I am so well satisfied that it is the coming machine, that I wish to order one now for next year's mowing.

Yours very truly,

GEO. C. BELCHER.

EASTON, MASS., Aug. 14, 1888.

Dear Sirs, — I wish to say that the mowing machine worked to the satisfaction of every one present — over fifty persons — at the trial to-day. It cut a quarter acre of very stout Hungarian grass, and I must say it cut it in first-class shape, and I think that the mower is a great improvement on any machine that I have ever seen for harvesting, and should heartily recommend the mower to any one that uses mowing machines, for many reasons that can be seen by a glance at the machine.

Respectfully yours,

GEO. I. ROLLINS.

WORCESTER, Aug. 10, 1888.

Mr. J. O. BROWN:

Dear Sir,— In answer to your inquiry, I will state that I saw the Endless Chain Mower operate on the farm of Mr. Calvin L. Hartshorn of this city, and as far as I can see, it appears to be a valuable addition to the list of mowing machines. For ease of draught and riding qualities it is almost perfect, and what I saw of its work was very fine. From the nearness of the knives it is almost impossible for it to pick up stones, and the self-sharpening arrangement is certainly a valuable improvement.

Wishing you success, I am, very truly yours,

WINSLOW S. LINCOLN,

Secretary of Bay State Agricultural Society.

SALEM, MASS., Aug. 17, 1888.

I have used the "Buckeye" in the same field on salt marsh and in red top, on Dr. Loring's farm, and in my opinion the "Brown Self-Sharpener" runs very much easier and does nicer work.

Respectfully yours,

FREDERICK CANN.

WORCESTER, MASS., July 10, 1888.

Mr. J. O. BROWN, Boston:

I was present at a trial of your "Self Sharpening Mower," on the farm of C. L. Hartshorn, and was very much pleased with its working.

Respectfully,

CHARLES GREENWOOD.

WORCESTER, MASS., July 16, 1888.

BROWN SELF-SHARPENING MOWING MACHINE COMPANY:

I was present and drove the machine at a trial on Mr. C. L. Hartshorn's farm, and I think it runs with much less power than any old-style machine, and handles very easy for the driver, and the self-sharpening is a great improvement. I believe it to be the right principle.

Respectfully yours,

EUGENE A. WILLIAMS.

WORCESTER, MASS., July 17, 1888.

J. O. BROWN:

Dear Sir, — I had the opportunity of using your "Self-Sharpening Endless-Cutter Mower" on Mr. Jewett's farm this year, and I have used several other makes of the reversing knives. My opinion is that this is a very much easier running and riding machine, and I see no reason why it won't be the coming machine. I worked it in a very rough, rocky, and newly seeded piece, and it did not dull the knives as it would the old-style machines.

Respectfully,

ARTHUR H. CROSBY.

J. O. BROWN, Boston, Mass.:

Dear Sir, — At your request to give my opinion of your machine, would say that it was given one hour's trial on very smooth land in well-ripened grass, July 16, at my farm, and did as good work as any man could wish. It is an easy-running machine, and appears to be easy of draught. Like all new machines, it worked well. Whether it will do as good work under all conditions, and when it has been worn a season and the parts been worn, I am unable to say. Should not like to indorse more fully on so brief a trial.

Respectfully,

C. L. HARTSHORN,

Vice-President of New England Agricultural Fair.

WORCESTER, MASS., July 17, 1888.

BROWN SELF-SHARPENING MOWING MACHINE CO., Boston:

Gents, — I used the mower you loaned me for trial, on a new seeded piece of ground, which I considered a hard test, and it did its work in a most satisfactory manner. I consider that it saves power and runs very easily, and is, I think, on the right principle for cutting grass or grain. The guards being so close together protects the knives, so that the machine can be used on rough ground without dulling the knives or accident to driver or horses. The self-sharpener I consider a great improvement.

Respectfully yours,

W. C. JEWETT,

*Chairman Committee of Arrangements
New England Fair.*

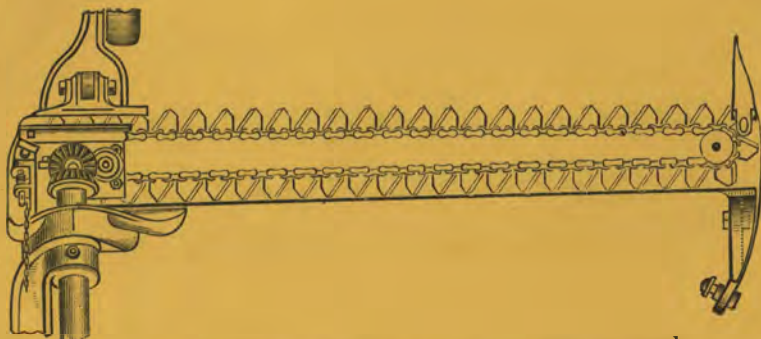
BROOKLINE, July 16, 1888.

E. C. PIKE, *Treasurer* :

Dear Sir,—I have used the "Brown Self-Sharpening Mowing Machine" on my farm this year, and am very much pleased with it. I think the endless cutter is a great improvement on the old style, and the self-sharpening device particularly is a great advantage, saving time and labor. The machine runs with very little noise, cuts smoothly and rapidly, and is said to make a saving of one third in horse power, but of that I could not accurately estimate.

Yours,

W. J. GRIGGS.



No. 1. — Showing Knives in cutter bar, without plates or guards.



No. 2. — Guard, about one third size.



No. 3. — Rivet and Washer to connect chain and knives ; full size.



No. 4. — Links for the Knives ; full size.



No. 5. — Knife ; full size.