

UNITED STATES.

OF THE

AGRICULTURISTS
TO THE

ROCKFORD, ILL.

Emerson, Talcott & Co.

ANNUAL CATALOGUE.

Emerson, Talcott & Co.



MANUFACTURERS OF

AGRICULTURAL
IMPLEMENTS.

ROCKFORD, ILL.

PRESENTED BY

THE

"STANDARD"
REAPERS, MOWERS,

SEEDERS,

ROTARY & SLIDE DROP

CORN PLANTERS,

Riding, Combined
and Walking

CULTIVATORS,

COTTON PLANTERS Etc.



Remember if far away
if only half away
Remember me on your
wedding day and
send me a piece of
cake

Sunday Night
Feb. 19 1890
When the golden sun
is setting and your
mind from care is
free when of others
you are thinking
will you sometimes
think of me

Alfred Norton
Christina Burlew

EMERSON, TALCOTT & CO., ROCKFORD, ILL.

Amelia Benson
John H. H. H.

ILLUSTRATED CATALOGUE

OF THE

"STANDARD"

Reapers, Mowers,

SEEDERS,

CORN PLANTERS, COTTON PLANTERS,

CULTIVATORS AND ATTACHMENTS,

MANUFACTURED BY

EMERSON, TALCOTT & CO.,

ROCKFORD, ILL.

TO THE FARMERS.

After thirty-two years' practical experience in the manufacture of agricultural implements, we again greet you, and invite your attention to the goods illustrated and described in the following pages. During our long experience in the manufacture of machines for the farmer's use, we have witnessed many changes in the methods of planting, sowing, cultivating and harvesting the crops; and we ourselves have manufactured many different kinds of machines. It has always been our aim to keep in the *advance* in the invention and introduction of improved machinery in our line of manufacture, and to make *first-class* goods *only*. How well we have succeeded in our efforts is best attested by our thirty-two years of continued success—a period covering many of the most eventful years in the history of the nation.

Since the foundation of our business, more than four hundred manufacturers, with their various kinds of machines, have competed for popular favor, and have miserably failed. These manufacturers have lost large sums of money, and the farmers of the country have been damaged to the extent of many millions of dollars by trying their "theories" and "improvements."

Through the experience gained during our many years of successful business, the "Standard"

machines have been brought to their present state of perfection and good reputation.

Certain unscrupulous manufacturers are endeavoring to force their inferior goods upon the market, by closely imitating the "Standard" machines in various particulars, thus seeking to derive some of the benefits which are the result of our many years of constant toil and liberal outlay of money, in perfecting the goods we offer you to-day; but by a comparison with the "Standard" machines, you will readily see that their imitations do not go beyond similarity in appearance, and that they do not really possess any of the actual superior features which have placed the "Standard" goods in the lead wherever introduced.

To the thousands who are to-day using our implements, we refer all who intend purchasing the coming season, confident that the testimony of all who are using our machines, will bear us out in the points of excellence to which we make claim.

We defy competition in the merits of what we manufacture, but cannot compete in price with untried or inferior implements.

If there is not a dealer in your nearest town handling our goods, write to us, and we will give your communications prompt attention.

Yours respectfully,

EMERSON, TALCOTT & Co.,

ROCKFORD, ILL.

JANUARY.

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*when days are dark
and fresh air
few think of me
and I will of you*

Henry Burr

LIVE STOCK RATIONS,

Giving the results of carefully-conducted experiments and analyses made by practical authorities, to determine the best and most economical fodders for stock in various conditions. This table, as a guide, will be found to be invaluable, though, in following it, allowance should be made for the variable composition, digestibility and flavor of the same feeding stuffs, and the individual peculiarities of the animal.

DAILY RATIONS FOR 1,000 POUNDS. LIVE WEIGHT.

Winter Fodder for Milch Cows.

lbs.	No. 1.	lbs.	No. 2.	lbs.	No. 3.
20	Best meadow hay.	20	Good clover.	17	Best meadow hay.
5	Wheat bran.	20	Beet pulp.	16	Corn stalks.
3	Palmnut-meal.	2	Cotton-seed meal.	3	Wheat bran.
				2	Cotton-seed meal.
lbs.	No. 4.	lbs.	No. 5.	lbs.	No. 6.
10	Clover hay, best.	20	Hungarian hay.	20	Clover hay, best.
15	Poor Timothy.	20	Mangolds.	2½	Wheat bran.
20	Turnips.	3	Wheat bran.	50	Turnips.
3½	Linseed cake.	2	Linseed cake.		

Fodder for Growing Cattle, 1 to 2 years old.

lbs.	No. 7.	lbs.	No. 8.	lbs.	No. 9.
15	Med. meadow hay.	20	Oat straw.	20	Med. meadow hay.
18	Rye straw.	30	Turnips.	20	Corn stalks.
12	Cotton-seed meal.	5	Wheat bran.	1¾	Meat scrap.
		2	Cotton-seed meal.		

Fodder for Fattening Cattle.

lbs.	No. 10.	lbs.	No. 11.	lbs.	No. 12.
22	Clover hay, best.	20	Med. meadow hay.	20	Good meadow hay.
8	Corn meal.	10	Oat straw.	100	Pumpkins.
		30	Mangolds.	3½	Cotton-seed meal
		3½	Cotton-seed meal	3½	Cotton-seed meal
lbs.	No. 13.	lbs.	No. 14.	lbs.	No. 15.
20	Best meadow hay.	22	Best meadow hay.	15	Clover hay, best.
30	Sugar-beet pulp.	50	Turnips.	10	Barley straw.
2	Linseed cake.	5	Corn meal.	40	Mangolds.
				3	Linseed cake.

Fodder for Sheep, producing Wool.

lbs.	No. 16.	lbs.	No. 17.	lbs.	No. 18.
15	Clover hay, good.	10	Medium hay.	20	Pea straw.
10	Poor hay.	15	Bean straw.	10	Potatoes.
3	Oats.	4	Corn.	2	Cotton-seed meal.
lbs.	No. 19.	lbs.	No. 20.	lbs.	No. 21.
20	Oat straw.	10	Best clover.	20	Poor meadow hay.
30	Mangolds.	10	Barley straw.	6	Clover hay, best.
1½	Dried flesh.	1½	Fish scrap.	4	Corn.

THE "STANDARD" No. 1

WIDE-CUT SINGLE REAPER.

The main features of this machine are its width of cut (six feet), extreme lightness of draft, simplicity of construction, durability, perfect cutting qualities, and absence of side draft. It is balanced on the wheels, and with the driver in his seat, there is no weight whatever on the horses' necks.

The Guards are strong, made of malleable iron, with steel ledger-plates.

The Rake is controllable, and is operated by *direct gearing*. The rake movement in all machines has to be placed on the grain platform, or what is equal to it. All **two-wheeled and rear-cut machines are forced to have a joint, or joints, between the platform and main frame**. In them the power from the gear-frame has to be carried over this joint, or joints, to the rake by a **chain**, or some other clumsy contrivance. In the **Standard** there are *no joints* between the platform and gear-frame.

There are no chains, cams, rollers or toggle-joints to cause friction or lost motion.

The ease with which the rake and beaters rise and fall in and out of the grain without jerk or jar, the rake reaching down and taking up the lodged spots, making a perfect separation between each bundle, clearing the platform with unerring certainty, leaving the gavels compact, with square butts and no twisted straws on the under side, is what has secured for it the praise of all who have used it.

The Lever for tilting the platform while in motion is convenient for the driver, and can be easily operated by a boy; and by its use, the platform can be easily tilted to pick up lodged grain, and as quickly brought back to its former position.

The body of the machine can be raised, by a screw and lever, to cut at any desired height to about fifteen inches, or lowered to the lowest cutting required.



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EMERSON, TALCOTT & CO., ROCKFORD, ILL. 9

THE "STANDARD" No. 2

REAPER AND MOWER COMBINED.

The "Standard" No. 2 Reaper is similar to the "Standard" No. 1 in its general characteristics, the principal difference being that the "No. 1" machine is a wider cut, and is not intended to be used as a grass cutter, while the "No. 2" machine will cut either grain or grass, and do good work.

The same style of rake is used on both machines.

These machines are the lightest draft and most perfect grain-cutting machines made.

They are not untried experiments, but have passed successfully through many harvests in all sections of the United States.

They are the result of over thirty years' experience in the manufacture of harvesting machinery.

We refer you to any one of the thousands of farmers in different parts of the country who have purchased the "Standard" Reaper.

DARLINGTON, S. C., March 30, 1883.

I think the "Standard" Reaper is the lightest running, does cleaner work and more of it than any other reaper I ever used or saw at work. I used it two days with two small mules without jading them in the least, and would as soon work my mules to the "Standard" Reaper as to the plow.

GEO. E. McCALL.

I concur in the above statement.

J. W. HENCKLE.

DARLINGTON, S. C., April 2, 1883.

This is to certify that I used a "Standard" Reaper last season with entire satisfaction, being easily managed, durable and exceedingly light draught, two mules pulling it with ease. I would advise any one wanting a reaper, to buy the "Standard."

PAUL WHIPPLE.

MARCH.

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FARM BUILDINGS.

	Ft. sup.
Floor space in stables, each horse.....	120
" cow stalls, each cow.....	100
" cattle sheds (shelter only).....	10
" to each sheep.....	10
" pig.....	10
" bullock, small.....	40
" " large.....	60
Width of stalls for horses.....	6
" cows.....	5
Width of building from wall to wall.....	5
Stables.....	20
Cow houses.....	18
Height of stables.....	12
" cow houses.....	11
Capacity of oat bins, per ton.....	75
" hay lofts.....	500

A horse will require about 10 lbs. of oats per diem, besides other food, such as hay or straw; or from 30 to 40 lbs. in all.

A horse will depreciate in value from 8 to 10 per cent. per annum after it is 5 years old.

TABLE OF FARM PRODUCE.

Name.	Wt. of Seed per bush.	Seed per acre.	Produce per acre.
Turnips } Swedish } Mangelwurzel.....	60	3½ lbs.	15 to 30 tons.
Carrots.....	40	6½ "	20 to 35 "
Parsnips.....	7	"	15 to 26 "
Potatoes.....	6	"	12 to 20 "
Jerusalem } Artichoke } Lucerne.....	56	14 cwt.	5 to 10 "
Clover.....	15	"	8 to 12 "
Sainfoin.....	26	3 bush.	3 to 5 "
Grass Seed, 5 to 30 "	60	15 "	2 to 3 "
Flax.....	53	3½ "	1½ to 2 "
Hemp.....	43	2½ "	Seed, 8 bu. Fibre, 6 cwt.
Neat.....	60	2½ "	Seed, 11 bu. Fibre, 6 cwt.
Barley.....	50	3 "	25 to 45 bu.
Oats.....	32	3½ "	40 to 55 "
Rye.....	53	3 "	40 to 70 "
Beans.....	64	2½ "	25 to 40 "
Peas.....	64	2½ "	25 to 50 "

To make 1 lb. of butter, requires 16 quarts of pure milk.

Ditto of cheese requires 10 ditto.

STRENGTH OF ICE.

A thickness of 2 inches will allow the passage of men in single file on a line of planks placed on the ice. No other row of planks should be placed nearer than 6 feet.

A thickness of 4 inches will allow the passage of cavalry, carts, or light guns, with a moderate interval between each.

A thickness of 6 inches will allow the passage of wagons drawn by horses, &c.

A thickness of 10 to 12 inches will support the heaviest loads ever likely to pass over it.

HOOP IRON.

Weight of 100 lineal feet.

B. W. Gauge.	Width in in.	Weight in lbs.	B. W. Gauge.	Width in in.	Weight in lbs.
11	3	126 30	15	1 1/2	36 38
12	2 1/2	115 78	16	1 3/4	33 34
13	2	91 78	17	1 1/2	26 52
14	1 3/4	73 42	18	1 1/4	20 84
15	1 1/2	71 28	19	1 1/4	18 17
16	1 1/2	63 32	20	1 1/4	12 39
17	1 1/2	55 41	21	1 1/4	8 84
18	1 1/2	47 15	22	1 1/4	6 95
19	1 1/2	40 42	23	1 1/4	0

CUT NAILS.

Size.	Length, inches.	No. per lb.	Size.	Length, inches.	Weight in lbs.
2	1	420	10	3	65
3	1 1/4	270	12	3 1/2	62
4	1 1/2	220	16	4	28
5	1 3/4	175	20	4 1/2	24
6	2	112	30	5	17
7	2 1/2	70	40	5 1/2	12
8	3	50	50	6	11
9	3 1/2	40	60	6 1/2	9

CUT SPIKES.

4 inch	weigh 12 to the pound.
4 1/4 "	" 10 "
5 "	" 8 "
5 1/4 "	" 6 "
6 "	" 4 "

WIRE.

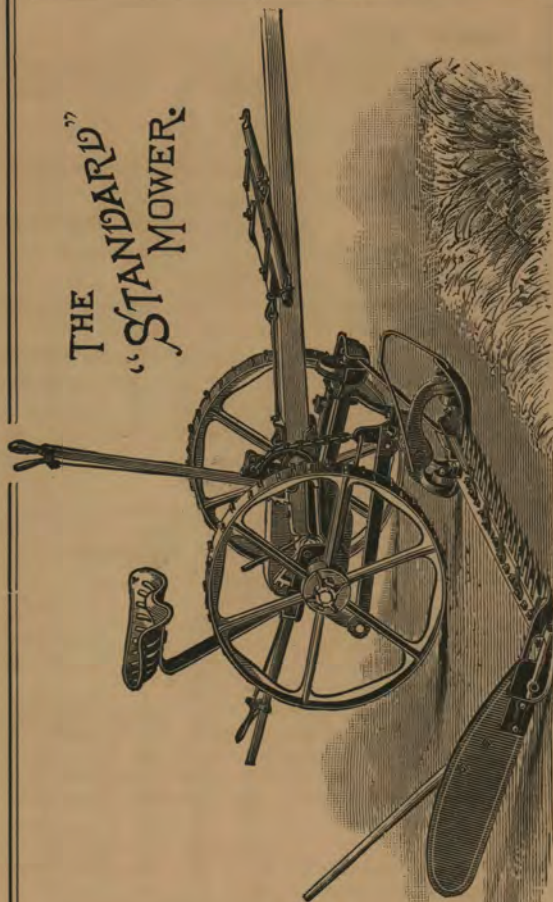
Weight of 100 lineal feet.

B. W. Gauge.	Iron.	Steel.	Brass.	Copper.
0	Lbs. 30 58	Lbs. 30 92	Lbs. 33 43	Lbs. 35 17
1	25 75	26 04	28 15	29 62
2	21 34	21 57	23 32	24 74
3	18 02	18 22	19 70	20 72
4	15 11	15 28	16 52	17 38
5	12 46	12 59	13 62	14 33
6	11 45	11 57	12 51	13 16
7	9 25	9 35	10 11	10 64
8	7 29	7 37	7 97	8 38
9	6 60	6 68	7 22	7 59
10	4 96	5 02	5 43	5 71
11	4 13	4 18	4 52	4 75
12	3 14	3 18	3 43	3 61
13	2 34	2 36	2 55	2 69
14	1 69	1 71	1 85	1 95
15	1 37	1 39	1 50	1 59
16	1 05	1 06	1 15	1 21
17	80	81	87	92
18	61	62	67	70
19	47	47	51	54
20	32	33	34	37

One pound of paint will cover about 4 superficial yards the first coat, and about 6 yards each additional coat.

About one pound of putty for stopping, will be required for every 20 yards.

One gallon of tar and one pound of pitch will cover about 12 yards superficial the first coat, and about 17 yards each additional coat.



FRONT-CUT, IRON FRAME, AND
ENCLOSED GEARING.

THE "STANDARD" MOWER.

The Lightest Draft and Most Durable Mower made. Front Cut, Jointed Bar, Iron Frame.

The Gearing is simple in construction, but powerful and very durable, and is inclosed in a cast-iron case, and thoroughly protected from rain, mud or dust.

The Finger-Bar is made of the best cold-rolled iron, and can be folded for traveling without detaching any parts.

The Guards are malleable iron, and steel-lined. They are bolted to the finger-bar, and can be readily removed by the use of a wrench.

The Steel Ledger-Plates can be easily sharpened, or replaced when worn out.

The Tilting-Lever enables the driver, without stopping his horses, to throw the points of the guards down to take up lodged grass, or to raise them so as to pass over bogs or stony ground; this being done without changing the position of the bed or frame of the machine.

With the **Lifting-Lever**, the finger-bar can be quickly and easily raised or lowered; thus, by the aid of the two levers, the cutting apparatus is entirely under the control of the driver, and may be readily changed to suit the necessities of grass or ground, as occasion may demand.

The Crank-Shaft Box is what is generally termed a *pipe-box*, and protects the crank-shaft from dust; but, unlike that part of many other mowers, is not a part of the main frame of the machine, but is so attached to it, that the shaft-box can be easily removed when worn out, and replaced by a new one at a trifling expense.

The Pitman is fitted to a ball-shaped crank, compact, and so arranged, that any slack can be taken up, thus securing continually free and easy motion.

The Shipping-Lever, for throwing in and out of gear, is in the center of the machine, and convenient for the driver to operate, either with his hand or foot.

The Track-Clearer can be adjusted for tall or short grass.



MAY.

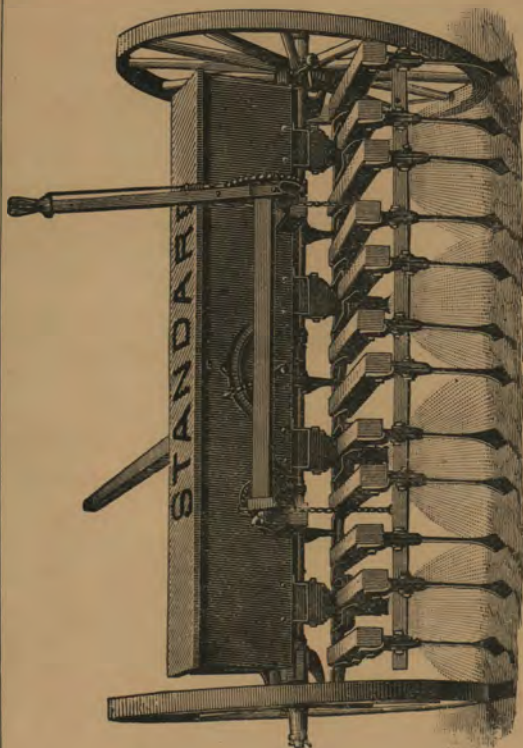
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THE "STANDARD" BROADCAST, FORCE-FEED SEEDER,



WITH CULTIVATOR AND GRASS SEED ATTACHMENT.

WE WILL NOT ENTER INTO AN ELABORATE DESCRIPTION OF THE

STANDARD SEEDER, AND GRASS SEED ATTACHMENT,

Seeders being now so well known in the community, nor give reference to those who have used it, but mention briefly some of its advantages.

It has a perfect force-feed.

Has no springs, brushes, or other perishable material.

The teeth being adjustable, can be set to cultivate any desired depth. By loosening a nut, the teeth can be set forward or back to suit the soil.

In striking any obstruction, the teeth will give back and avoid breakage.

In raising the cultivators, the feed is thrown out of gear, and *vice versa*; also, in backing.

The cultivators are raised by pulling down instead of lifting.

A boy old enough to drive, can raise all the twelve cultivators at same time. We only use one raising lever.

The cultivators work close to the wheels, cultivating all the ground without lapping.

Will stop sowing the instant the machine stops, and will sow again the instant it starts.

The seeder and grass seed attachment can be used in windy weather; will sow evenly all kinds of seed, grain, grass, flax, timothy, peas or corn, and will not cut the grain or seed.

It makes no difference whether the horses walk slow or fast—it distributes evenly at all times.

The scatterers adjust themselves to going up or down hill; and striking obstructions, give back, not break.

It feeds from the rear side of the box, where are also placed the land measure and seed gauge—all in full view and in reach of the driver.

No extra wheels required to change the feed.

Has large wheels and broad tire.

By taking out the two middle drag-bars, it becomes a good corn cultivator.



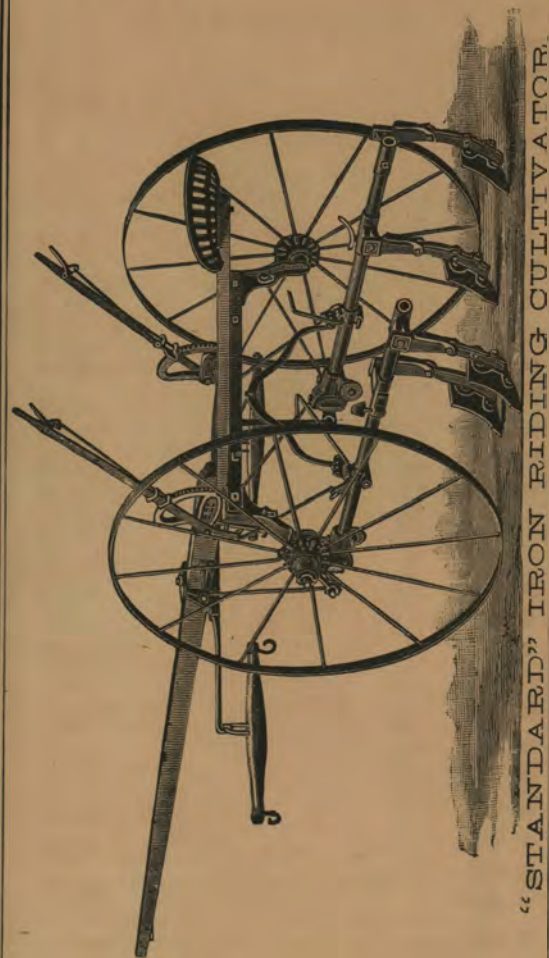
JUNE.

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JULY.

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“STANDARD” IRON RIDING CULTIVATOR.

We invite your attention to this machine, confident that it will please you. It is the handsomest, most complete and durable riding cultivator made.

It is constructed almost entirely of steel and iron, the only wood parts being the tongue and single-trees.

Among the many novel features peculiar to this machine, are the following:

Patent Lock-Lever Slips, for attaching the shovels to the beams, by the use of which we dispense with the wooden break-pins common to most other machines, and the annoyance attending their use.

Tubular Iron Shovel Beams, which, being what are known as the *straight* or *single* beam, have the advantage of the *long swing* peculiar to *wood beam* machines, but with greater strength and durability than any other iron or wood beam in use.

The **Beam Couplings** are adjustable, so that the beams can be easily set to cultivate different widths.

The **Arch Bail** for connecting the beams can be quickly removed if desired, or readily handled for adjusting the beams to different widths of cultivation.

The **Seat** is adjustable to suit light or heavy, tall or short, operators; and can be thrown forward out of the way without detaching any parts, if it is desired to use the machine as a walking cultivator.

The **Shields** adjust themselves to the ground worked, and are interchangeable, so that when one side has become worn, they can be reversed.

The **Foot-Levers**, for raising the shovels out of the ground without using the hands, are very easily operated, and by their use, the driver can raise the gangs at the end of row, or raise independently either gang to avoid obstruction, and at same time have full control of the team. This is also useful in removing weeds or trash from the shovels without stopping the team. By this improvement, the depth of cultivation can be regulated by the hand-levers, and so left, as the necessary raising of the shovels for all purposes but traveling to and from the field can be done with the foot-levers.

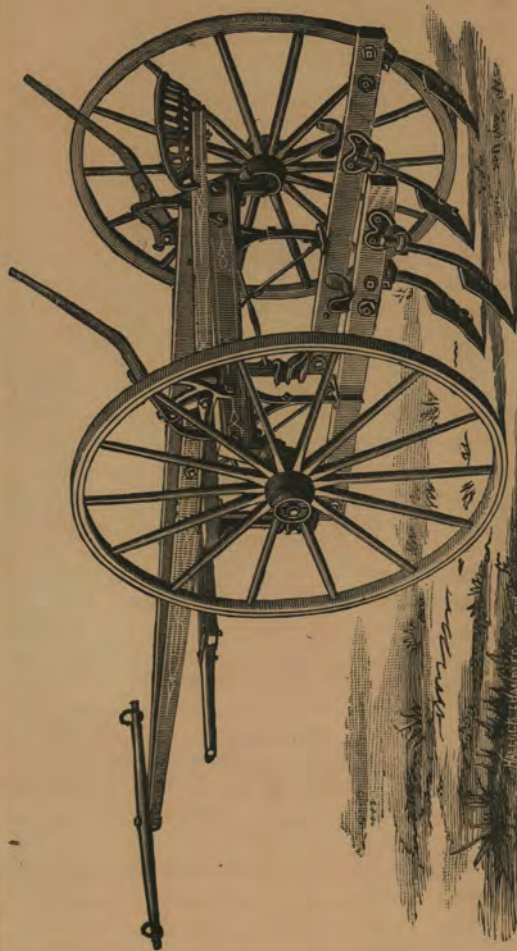
For full description of this machine, see special circular.

AUGUST.

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THE "STANDARD" RIDING CULTIVATOR

is so well and favorably known, that we shall call attention to but few of its many points of excellence, viz.:

Light Draft, which is secured by high wheels.

Perfectly Balanced, with no weight on the horses' necks.

Readily Adjusted to the requirements of the ground to be worked.

No Wooden Breakpins, but in the place of same we use our patent Slip Device, which is illustrated on page 35

Levers for Raising or Lowering the Beams, to regulate the depth of cultivation, or to raise the beams entirely out of the ground, are within easy reach of the driver. These levers we are now making of iron, with double springs.

Patent Beam Coupling, very simple in construction, and the best coupling in use. It holds the beam firmly to its place, but permits free and easy, vertical and lateral motion, without any of the *wabbling* common in other styles of couplings.

The Beams are supported by rods running *forward*, and connected with the main frame at a point nearly directly above the coupling, which secures an even depth of plowing, whether the shovels are swung away from the middle of the row or not. Either beam can be raised or lowered, and held to plow at any depth, independent of the other.

The Shovels are bolted to wrought-iron standards with two bolts, the lower end of the standard being drawn down nearly to the point of the shovel, completely supporting the whole shovel and preventing breaking.

The standards present very little surface above the shovel to catch dirt and trash, and are so constructed, that the shovel can be raised or lowered without changing its position in the ground, or set at any desired twist or angle, in a moment's time.

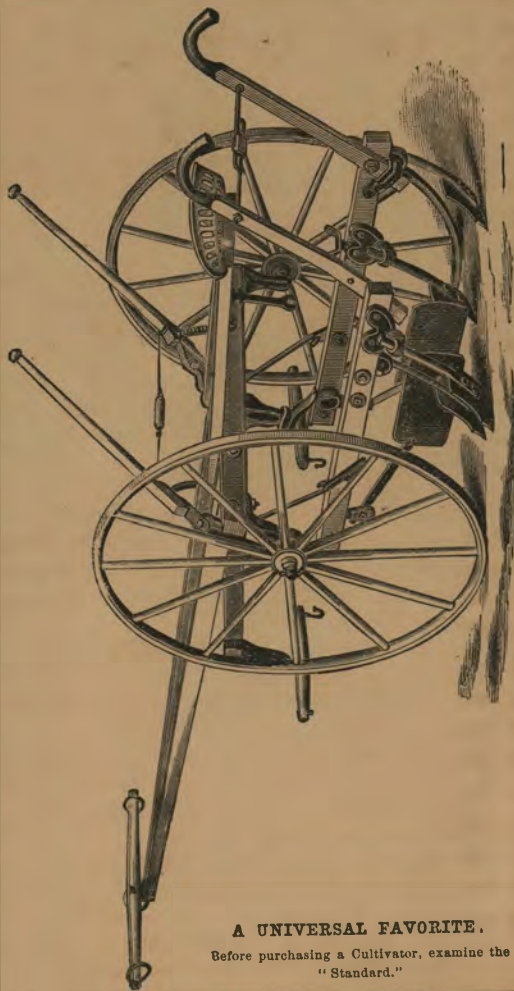
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NOVEMBER.

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THE "STANDARD" COMBINED CULTIVATOR.



A UNIVERSAL FAVORITE.

Before purchasing a Cultivator, examine the
"Standard."

THE "STANDARD"

COMBINED

RIDING OR WALKING CULTIVATOR.

This machine was first introduced to the public in 1878, and at once became a general favorite, and has since maintained its position as the **Best Combined Cultivator made**. It is now known wherever combined cultivators are used, and with its various attachments, has become indispensable to a very large number of the farmers and planters in various sections of the United States; a fact that is well proven by the immense trade the machine has attained in the comparatively short time, since its first appearance.

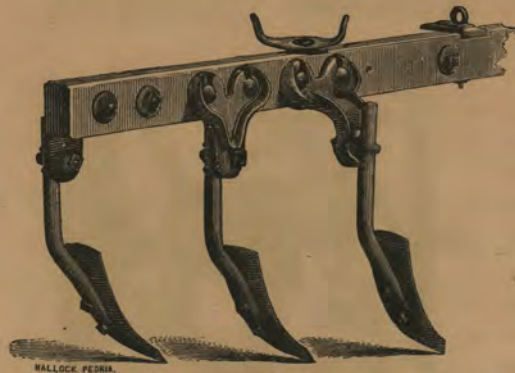
It is, in its general characteristics, quite similar to the Standard Riding Cultivator, having the same style of **Beam Couplings, Shovels and Standards, Slip arrangement, &c.**, but differs from it in being a **Combined Riding or Walking Machine**.

It can be changed from a riding to a walking cultivator in a moment's time, by simply placing the single-tree in a lower hitch, it not being necessary to shift the frame or seat, or remove a single bolt.

Hand-Levers, similar to those used on our riding cultivator, are used on this machine, and by their use, the operator can instantly gauge the depth of cultivating, or raise the beams entirely out of the ground.

The Beams are long, and having the shovels *back* of the wheel, it is impossible to catch trash between the shovels and the wheel. The beams are so nicely coupled to the frame, and so well balanced, that they are controlled by the feet, when the operator is riding, without weariness to the legs.

SIX-SHOVEL CULTIVATOR



For purposes of seeding and fallow plowing, we can furnish cultivator beams with narrow shovels—three on each beam—which, with the center or “fifth” shovel, makes seven, all subject to the same adjustments as our *regular* machines.

For cultivating on land that is inclined to wash, the “six-shovel” machine is unequaled, as it pulverizes the ground thoroughly, and leaves no furrow.

We can furnish these beams for either the “Standard” Riding or the Combined Riding and Walking Cultivator, as may be desired.

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T	25
F	26
S	27
S	28
M	29
T	30
W	31

OUR COTTON AND CORN-PLANTING ATTACHMENT

TO THE

"STANDARD" CULTIVATOR.



In the above cut we present the "Standard" Combined Riding and Walking Cultivator with Cotton and Corn Planter Attachment, showing the new and latest improved Furrow Opener.

This will be used on all Planter Attachments made for the season of 1884.

It has a compound lock-lever, which holds the furrow opener down to its regulated depth. The depth of furrow may be changed to suit the land, wet or dry seasons, or the crop to be made.

The furrow opener is not connected to the beams as heretofore, and is raised or lowered wholly independent of the beams, and can be made to open furrows in unplowed ground. This, with other late improvements in the Planter, as well as the Cultivator itself, makes the outfit, in whole or in part, just what we always intend our goods shall be—"The Best in the Market."

The new furrow opener can be attached to the planter made in 1881 and 1882.

OUR COTTON AND CORN-PLANTING ATTACHMENT

TO THE

"STANDARD" CULTIVATOR.

This is the only successful attachment of the kind made, and its unqualified success, since its first introduction to the planters of the South, fully demonstrates the truth of the above assertion.

1. It can be attached to any "Standard" Cultivator made since 1878.
2. It drops the cotton seed in a continuous stream, evenly and regularly, without skips, or leaving bare places.
3. Any quantity of seed per acre can be planted, by simply changing the picker-wheels to correspond.
4. The furrow-opener is also the "seed spout," and seed cannot be blown out of line.
5. The seed needs no preparation to secure an even delivery.
6. The seed cannot "bank up" in the box, and stop the delivery.
7. The covering of the seed is done by the two forward cultivator shovels, which can be set to cover any desired depth.
8. At the same time, the "middles" are worked by the two rear or outside cultivator shovels.

HOW IS THIS FOR ECONOMY?

The following can be done by one man or boy, with a team of two horses or mules, in one trip across the field, viz.: The furrow opened, seed dropped and covered.

The action of the two front shovels in covering, is to throw up a bed or ridge, which, in some lands, is high enough without any further "bedding up." For extra high bedding, use the turning shovels made for that purpose.

FOR PLANTING CORN OR PEAS,

the only changes made is in the drop, and in the speed of the feed-wheel shaft. The seed is deposited in the moist earth, and in a straight row, and is immediately covered up, and not left for the birds till you can get around to cover with a double shovel or turning plow.

THE "STANDARD" CULTIVATOR,

With Seeding Attachment and Center Shovel.



Can be attached to any "STANDARD" COMBINED
or RIDING CULTIVATOR made since 1878.

CULTIVATOR ATTACHMENT FOR SOWING SMALL GRAIN.

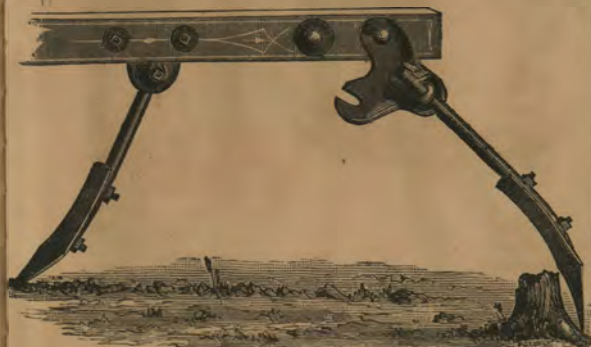
This attachment will cost you but one-quarter the price of a grain drill; will sow nearly as much in a day, and will do it quite as well.

A feed is used, which secures a sure and even passage of the grain or seed through the delivery spouts, and it is then thrown to the right and left, covering the distance between the wheels of the cultivator.

The seed falls a distance of fifteen inches only, so that a high wind has but little effect upon it, and a moderate breeze none at all.

In construction, it is very simple, and not liable to get out of order.

When five shovels are used in seeding, the ground is left almost, if not quite, as smooth as when harrowed. The shovels can be set to cover from two to eight inches deep, as may be desired.



SECTION OF CULTIVATOR BEAM, SHOWING SLIP DEVICE.

THE "STANDARD" CORN PLANTER.



Slide and Rotary Drops. Lightest Draft Planters made. Seed Plates changed without removing Corn from Seed Boxes.

THE "STANDARD" CORN PLANTERS.

ROTARY AND SLIDE DROPS.

For simplicity, durability and perfect working qualities, are unequalled.

We claim the "Standard" to be the **lightest draft planter made.**

The **Seed Plates** in either the rotary or slide-drop machine can be changed without taking the corn from the seed boxes, or loosening a nut.

The **Depth of Planting** can be regulated by adjustable steel-bearing shoes.

The **Distance between the Rows** can be adjusted to three feet six inches, or three feet eight inches.

Either **Concave or Flat Wheels** are furnished, as may be desired.

The **Driver's and Dropper's Seats** are both adjustable to suit the weights of the operators.

Our **Gravity Cut-off** is the most perfect cut-off in use. It neither cuts nor crushes the corn. It has neither springs or rubbers to wear out, or get out of order.

The **Open Heel** enables both of the attendants to see the corn from the time it leaves the seed box until it is deposited in the ground.

The **Flexible Joint** between the front and rear part of the machine permits the wheels to adjust themselves to irregularities in the ground, without interfering with the runners. If desired, the connection between the two parts of the machine can be made rigid in a moment's time.

The **Runners** can be raised entirely from the ground and locked out, or pressed into the ground, or regulated to run evenly in soft or hard ground, by *one lever*, operated with either the foot or hand.

THE "STANDARD" ROTARY-DROP PLANTER.

In construction, our **Rotary-Drop Planter** is the same as the *slide-drop*, with the exception of the dropping device.

Our Rotary Drop is unlike any other in use, and combines, in a very simple manner, all the good points of both the *Rotary* and *Slide* systems of dropping, and with it we believe a *better average drop* can be made than is possible with any other planter.

It will pay you to examine this planter before purchasing any other.

CHECK-ROWER.

We expect to put on the market, for the season of 1884, a Check-Rower that will excel any now made. It is extremely simple, very durable, and does its work perfectly. For a full description, see our special circular. All successful check-rows can be used on the "Standard" Planters, and are guaranteed by the manufacturers to work satisfactorily.

ATTACHMENTS FOR DRILLING CORN.

We furnish, when desired, an attachment for planting corn in drill rows, one or two kernels at a time, varying in distance from 13 inches to 17 inches, or 21 inches apart, as may be required. In ordering, state whether the attachment is desired for a rotary or slide-drop machine, as they are different.

BROOM CORN OR CASTOR BEANS.

We can also furnish plates to drop either broom corn or castor beans.

In ordering, state if desired for a rotary or slide-drop planter.

JONES' IMPROVED HAND CORN PLANTER, EITHER DOUBLE OR SINGLE.



AWARDED 103 FIRST PREMIUMS.

60,000 now in the Hands of Farmers!

We wish to call attention to some of the advantages of the JONES' HAND CORN PLANTER, which places it ahead of any other.

1st. It is the **SIMPLEST** and **MOST RELIABLE** and **MOST DURABLE** hand planter in use.

2d. It can be used with perfect success either as a double or single planter.

3d. The improved cut-off makes the dropping very accurate.

4th. The cut-off being of iron instead of brush or rubber, it will last for years without any possibility of getting out of repair; and being adjusted to its place by the pressure of the corn, will not crack the seed.

5th. The plunger being of iron, is not affected by the weather, swelling and running hard when wet, or shrinking and running too loose in dry weather.

6th. It has taken more first-class premiums than all other hand planters put together.

WEIGHTS AND MEASURES.

LONG MEASURE.

12 = 1 foot.
 36 = 3 = 1 yard.
 72 = 6 = 2 = 1 fathom.
 198 = 16.5 = 5.5 = 2.75 = 1 perch.
 7920 = 660 = 220 = 110 = 40 = 1 furl.
 63360 = 5280 = 1760 = 880 = 320 = 8 = 1 m.

LAND MEASURE.

Inches.

7.92	=	1 link.
792	=	100 = 1 chain.
63360	=	8000 = 80 = 1 mile.

SQUARE MEASURE.

Inches.

144=	1 foot.
1296=	9 = 1 yard.
39204=	272.25= 30.25= 1 perch.
1568160=	10890 =1210 = 40=1 rood.
6272640=	43560 =1840 =164=4=1 acre.

LAND MEASURE (Square).

Links.

625	=	1 perch.
10000	=	1 hain.
25000	=	2.5 = 1 rood.
100000	=	10 = 4 = acre.

SCOTCH AND IRISH MEASURE.

English mile	=	1760 yards	=	1.00000
Scotch "	=	1984 "	=	1.12159
Irish "	=	2240 "	=	1.27273
English acre	=	4840 sq. yds.	=	1.00000
Scotch "	=	6150.4 "	=	1.27074
Irish "	=	7840 "	=	1.61983

SOLID MEASURE.

Cub. inches.
 1728 = 1 cub. foot.
 46656 = 27 = 1 cub. yard.

COAL.

112 lbs. =	1 cwt.
2 cwt. =	1 sack
10 sacks =	1 ton.

СОКЕ.

4 bushels = 1 sack.
12 sack = 1 chaldron.
21 chaldrons = 1 score.

CLASS.

5 lbs. =		1 stone.
24 stone =		1 seam.
12 articles =		1 dozen.
13 " =		1 long dozen.
20 " =		1 score.
5 score =		1 hundred.
6 " =		1 long hundred.
12 dozen =		1 gross.

TIME.

Seconds.

60 =	1 min.
3600 =	60 = 1 hour.
86400 =	1440 = 24 = 1 day.
604800 =	10080 = 168 = 7 = week.
2419200 =	40320 = 672 = 28 = 4 = 1 mo.
	12 months = 1 year.

MISCELLANEOUS ARTICLES.

A cable's length =	240 yards.
The old wine gallon =	331 cub. in.
A stone =	14 lbs.
20 articles =	1 score.
12 dozen =	1 gross.
A cord of wood =	128 cub. ft.
A faggot of steel =	120 lbs.
A car of straw lead =	11 cwt
Pig of balow =	56 lbs.
Truss of straw =	36 "
" hay =	56 "
A load of hay or straw =	36 trusses.
A firkin =	1,444 cub. ft.
A corn bushel =	1,284 "
A cart's load =	25 tons.
A ton of Port cement =	2,240 lbs.
" " =	10 sacks,

A bushel of wheat	weighs	60	lbs.
" corn	"	56	"
" rye	"	53	"
" barley	"	50	"
" oats	"	32	"
" oatmeal	"	50½	"
" peas	"	64	"
" beans	"	63	"
" rape-seed	"	48	"
" malt	"	38	"

PAPER.

24 sheets = 1 quire.
20 " = 1 " of outsides.
25 " = 1 " printer's.
20 quires = 1 ream.
21½ " = 1 " "
2 reams = 1 bundle.
10 " = 1 bale.
60 skins = 1 roll of parchment.

DRAWING PAPER.

Demy.....	20	x	15
Medium.....	22	x	17
Royal.....	24	x	19
Super Royal.....	27	x	19
Imperial.....	31	x	21
Elephant.....	27	x	23
Columber.....	34	x	23
Atlas.....	33	x	26
Double Elephant.....	40	x	26
Antiquarian.....	52	x	29

WATER.

1 cubic inch.....	=	.0361 lbs.
1 gallon.....	=	10.0000 "
1 cubic foot	=	62.3210 "
1 " "	=	6.2321 gallons.
35.943 cubic feet....	=	1 ton.
Approxim'l 1 cub.ft.	=	6½ gallons.
1cc, 1 cubic foot....	=	58½ lbs.

Seal Oil..... = 9 lbs. per gall.
Sperm Oil..... = 8½ " "

WEIGHT OF MEN AND ANIMALS.

A crowd of men, closely packed	= 84
lbs. per foot superficial.	
A horse (cavalry).....	= 11 cwt.
" (light, for riding) ..	= 8 "
" (strong, for carting) =	14 "
Ox.....	= 8 "
Cow (fat).....	= 6½ "
Sheep.....	= ¾ "
Pig.....	= 1½ "

EMERSON, TALCOTT & CO., ROCKFORD, ILL.

Farmers who cannot find our goods at their nearest dealers, are requested to address us, and we will give them all desired information.

CALENDAR.

1884.

[illegible]

That the "STANDARD" Machines are not untried experiments, is attested by the many thousands of them in use in nearly every portion of the United States.

IT WILL PAY YOU TO EXAMINE THEM.

killed ; but he crept through a hole in his prison, and was escaping, when he was missed. After a search he was found, and taken back to his dungeon : the war, however, was brought to a close, and his life was spared.

Henry now found himself without father or mother, brother or home, and became very unhappy. Sometimes, after he had played with other children, when he saw them return at night to their homes, he would sit down and weep, because he had no parent's house to go to. About this time a ship came to the island, and as there was no one who cared for him, he offered to go along with the captain. He now became a sailor, and went to different parts of the world, and at length landed in America.

One day Henry was found weeping on the steps of an American college. He was asked what made him weep ; he said, because there was no one to teach him. Some of the students heard of his case, and kindly offered to instruct him. With the consent of the captain of the ship, he was left in America.

Several ministers and gentlemen treated Henry with much kindness : he got on very

fast in his learning, and after some time, it was hoped he had become a true believer in the Lord Jesus Christ. His friends were training him that he might return to Owhyée, and there teach the way of salvation; but God was pleased to call him to die in early life.

He took a fever, and lingered a long time before his sufferings came to an end; at all times he was patient, cheerful, and resigned to the will of God. Among other remarks he said, "I am not afraid to die. Let God do as he pleases. If we put our trust in God we need not fear. O you do not know how much I depend upon the great Physician of souls! God has given his Son to die for you. I want to have you love God very much. You and I are sinners. May the Lord Jesus have mercy on our souls! I have no desire to live, if I can enjoy the presence of God, and go where Christ is." He spoke to all who came to see him about the salvation of their souls, and, in his last hours, prayed, "O, Lord, have mercy on my soul! Save me, for the sake of Jesus Christ, our Lord and Saviour! Amen."

GREAT EVENTS OF THE GREATEST CENTURY:

BEING A DESCRIPTIVE PORTRAITURE OF

The most momentous Political Occurrences since the birth of the Republic—Decisive Battles and Brilliant Naval Engagements of our five Wars—Wonderful Phenomena of Earth, Ocean and Heavens—Celebrated Criminal Cases, Trials and Tragedies of absorbing public interest—Extraordinary Discoveries, Inventions, Scientific Expeditions, and the Splendid Triumphs of Mechanical genius—Superb Achievements of Oratory on National Occasions—Remarkable Reforms, Delusions and Excitements—Appalling Public Calamities, Disasters and Panics—National Jubilees, Pageants, Feats, etc., etc.—all arranged, in the work, in chronological order.

By R. M. DEVENS.

WITH OVER 300 ILLUSTRATIONS BY PROMINENT AMERICAN ARTISTS.

The work will contain 739 Imperial Octavo Pages, printed from Electrotpe Plates, in large clear type, on superfine sized and calendered paper, and bound in neat and durable bindings. It will be manufactured *specially for subscribers*, on their orders, and furnished as follows:

✕ In Extra English Cloth, sprinkled edges.....	\$4.75
In Full Leather, Library Style, sprinkled edges	5.50
In Half Turkey Morocco, gilt edges.....	6.50

 Payable on delivery. The work to be delivered about..... *March*..... 1837
or any time within three months thereafter.

PUBLISHER'S GUARANTY

TO SUBSCRIBERS.

1. The undersigned guarantees the book shall be, in every respect, equal to the description given in the Canvassing Book,—otherwise subscribers will not be obliged to receive it.

2. As the work is copyrighted, to be sold on subscription only, and in no case through the bookstores, canvassers are not allowed to furnish any but subscribers, under penalty of a refusal to supply their orders and canceling of their appointment. Orders not subject to countermand.

3. Unless sickness or death, or other unavoidable circumstances prevent, the same person who takes the order will deliver the book.

HUGH HERON, Publisher, Chicago, Ill.

WANTED.--A few more intelligent and responsible men, to introduce this work.

Advice to Husbands.

Share with your wife the contents of your pocket book. You trust her with your heart and your honor ; are they of less value than your purse?

Don't always praise your mother's cooking ; give now and then a word of commendation to hers, and see if you are not more than repaid.

Don't, when you come home from business at night, wear a frown heavy enough to terrorize a wild beast, not to mention a timid woman and little children ; but enter your home with a smile, kiss the tired wife and babies, and see if the world doesn't appear ten per cent brighter.

Pray don't think that you have conferred such an inestimable boon on the little woman, just because you have given her your name, and provide her with food and clothes. Think once, of all she has given up for you, and see whose has been the greater gain by the marriage contract.

Go over your marriage vows once in a while, and see how you are keeping them.

Do you always "love and protect" in every sense of the word? Remember, you said, "with my worldly goods, I thee endow." Are you keeping that, literally? Can you truthfully say "I am?" Bring back the old courting days by taking her to some place of amusement once in awhile. In the days before marriage, you did all you could to make her love you. Do all you can to keep that love now.

Don't be a "lord and master ;" be a husband.

M. K. P.



THE SANDWICH ISLANDER.

OWHYEE, one of the Sandwich Islands, was the birthplace of Henry Obookiah. When he was about eleven years of age, a war arose between two parties in the island where he lived. The party to which Henry's father belonged was defeated, and the conquerors turned their rage on the villages of those they had overcome. When the alarm was given, his father came to the hut, took his wife

and two children, and fled to the mountains. There he hid himself, with his family, for several days, in a cave ; but, at length, being driven by thirst to leave their retreat, in search of water, a party of the enemy surprised them at the spring. The father fled ; but hearing the cries of his family, he hastened back to their assistance, when he and his wife were slain before the eyes of their children. Henry seized his little infant brother, and tried to make his escape : the warriors ran after him, and drove a spear through the body of the infant while he was on his brother's back. Henry was saved alive, as he was not young enough to give them trouble, nor old enough to excite their fears.

Henry was now a prisoner until the war was over, when he was claimed by his uncle, who was an idol priest, and who intended to train his nephew to the same office. The poor boy now had to rise daily before sunrise, to attend the heathen temple.

After this, there was more fighting among the natives, and Henry again fell into the hands of the enemy. He was put into a dark house, there to be kept until a certain day, when he was to be