THE DESERET NEWS



WINTER.

When gusts of wind, with rain and sleet, Wildly against the casement beat; Past creaking signs the tempest roars, And lazy maids let slam the docrs; Then down the chimney puffs the smook, And nature yields to winter's yoke.

When horses' hoofs, well shod with steel, Clang on the frozen earth a peal, And shooting stars attract the eye, And nothern lights shine flamingly; Then winter with its woonderous might, Bridges the rivers in one night.

When young men stamp to warm their toes, And purple turns the drunkard's nose; When girls are wrapt in endless shawls, And slippery roads give hurtful falls, Then winter's snowy mantle's spread, A coverlet on nature's bed.

When kine are huddled in the yard, And muddy lanes turn crisp and hard, When frost hangs white upon the beard; And limbs are numb, and eyes are bleard; Then, for the badly clad and poor, Cold Winter makes the fires roar.

all obstructions, and cannot clog, in consequence both cf the centrifugal force which they give to the soil, and by their sudden expansion asunder as the chains pass around the lower cylinder.

4. Its working is not attended with the board always existing in plowing.

5. By taking a wider sweep of land at each passing, a single land is able to direct a larger quantity of work daily than by the use of the single plow.

6. Should culture by steam be adopted at some future time, the use of this machine would be equally adapted to this force, and would not be liable to the imperfect work which the gang plow attached to the moving engine has hitherto made.

On the other hand a prominent drawback is the great weight of the machine-now about two tons, but capable of being reduced to one go out of use the better: -and a half tons, by lessening unnecessarily heavy portions. We are inclined to the opinbe still more reduced by making the drums much smaller, and the endless chains shorter; for we see no advantage in such a large series once, the only efficacious part of their working being at that point where they pass the lower cylinder.

Further experiment will be needed to determine the relative cheapness of this mode of pulverizing the earth as compared to plowing. In the experiment which we witnessed, the teams would have worked separately and plowed as much ground, to nearly an equal depth, and with the same ease; but when the machine is reduced in weight as proposed, the results may be much more favorable.

Farm Implements and Machinery.

The following from the Country Gentleman, on simplicity in the structure of farming implements and machinery, and the selection of heavy friction between the sod and mould- such as can be worked by a farmer with what force he may have at his command, without about a quarter of an acre of potatoes, with hiring or borrowing, is worthy the considera- a view to try experiments. They grew finely, tion and the attention of many farmers in Utah, and when the potatoes were about half grown, especially the remarks in relation to thrashing machines. We are not particularly in favor close to the ground. About two weeks later I of thrashers of any kind, and those larger, saw that the tops of those that had not been cut cumbrous, complicated concerns, that require began to show signs of dying. I then cut off the ten or twelve horses and as many men to run them, if labor saving, are far from being d gging time in the fall was, the two first expense saving machines, and the sooner they rows spoken of above, had not a rotten potato

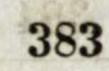
farmers will find it advantageous to examine, course of nature. ion also that both its cost and its weight might repair and improve all their implements and machine. A knowledge of the principles of

Experience in Raisng Potatoes.

Mr. G. P. Serviss, of Montgomery county, N. Y., in a communication to the Country Gentleman and Cultivator, says:

Some three or four years ago, I planted and before I could discover any appearance of the disease, I cut off the tops of two rows tops of a number of rows, leaving the remainder to take the course of nature. The result at in them. The rows that had their tops cut off some two weeks later, were nearly all During the more leisure season of winter, rotten, and so were those left to take the

But this is not all. This last spring I plantmachines. It is in these that agricultural ed about an acre with June potatoes, as early progress has been most strikingly marked as the ground would admit. They grew finely, within the last twenty years; and the cultiva- and I anticipated a good crop. They were of teeth standing immovably in the soil at tor who does not keep pace with the improve- nearly ripe, when the news came from different ments made, is wasting a valuable element of parts of the town that potatoes were rotting success. There is less danger of imposition very much. So feeling a little suspicious in this direction, than in some others, for a about mine, I took a hoe and went through the year's use will establish the character of any potatoes to examine them; I dug about a dozen hills, one here, and another there, and so on machines, added to the experience which every through the whole, and finding them all sound, observing farmer should possess, will enable covered them up again where I dug them. But him in most cases to judge with a good deal of not many days after I found my potatoes were certainty before hand, on the value of a new rotting as bad as my neighbors. I then let them take nature's course till late in the fall, There are two points that should be always when the digging found them two-thirds kept before the farmer's eye, when making rotten, except those doxen or fifteen hills that any provision of this kind. The first is sim- were detached from the vines at the first ex. plicity of structure. A simple machine is amination, which were all sound with a very cheaply bought, easily managed, not easily few exceptions. Now this fact is conclusive 1. The relative force of draught required deranged, and quickly restored to repair. that had I dug my potatoes, or even detached (by using the dynamometer) to draw the ma- Other things being nearly equal, always buy them from the vines, at the time I made the chine when the teeth are out of the ground or the simplest machine. The crowbar is a fine first examination, I should have saved the process going on-in order to determine the valuable for many purposes, and never out of There are various opinions as to the cause actual force needed to cultivate a given depth joint. The great difficulty in replacing the of the potato rot; but let it be produced by and breadth as compared with the same work plow with any other cultivating machine, is what it may, by the atmosphere, or by an done with the plow. This is a very important its great simplicity. Complex husking ma- insect, as is thought by some, or from some point to ascertain, and has an essential bear- chines have all given place to old fashion other cause, certain it is that the tops are first ing on the economy of the forces. If the appliance of thumb and finger, armed some- attacked, and then the potatoes. And there power of the wedge in the plow is more than times with huaking thimble or peg, but oftener is but little doubt in my mind as to its being overbalanced by the friction of the weight on without. Automaton gates have cost thought good policy to detach the potato from the vine the sole, and of the sod on the mould-board, and money, but most farmers will prefer the as soon as the first symtoms of the disease appears, let them be in what state of perfecchinery, is where the powerful muscles of Now my opinion is, that if farmers would This machine cannot work on stony ground horses are made to accomplish what before get the earliest varieties of potatoes, and make -- its weight and complexity, (and consequent was done by the weaker force of man-as in a practice of planting them (not in the moon) cost,) appear to be the prominent objections. the mowing and thrashing machine; or where in the ground as early in the season as possible, We think, however, these might be greatly the slow manipulation of fingers with no ex- thereby giving them time to mature, or nearly lessened; and we are not sure but that when penditure of strength, is changed to a greatly so, and then detach them from the vines as perfected it may become the very best machine increased rapidity of the same work by me- soon, or just before being attacked by a diseass yet devised, especially in connection with chanical combinations, instances of which called the potato rot, (which seldom makes its steam power, for the culture of the prairies occur in the garden drill and the sewing appearence in this lattitude much before Aug.,) and great farms of the west. At all events, machine. Some complexity is here necessary, there would be thousands of bushels of potatoes the thanks of the entire country should be and is admissible when great speed is gained, saved which under the present general system



When deep snow cakes beneath the feet, And chiliblains itch with buining heat; When starving birds the homestead seek, And robin's voice is low and weak, Then sloppy roads, and dripping eaves, Tell that cold winter shortly leaves.

[From the Country Gentleman.] O'RIELLY'S AMERICAN TERRACUL-TOR.

On the 7th instant, several gentlemen were invited to witness at Rochester the operation of a new machine for loosening and pulverizing the soil, which has been constructed under the care of Henry O'Reilly; Esq., widely known for his energetic and successful labors in extending the lines of telegraph throughout the United States. This machine combines the essential features of Evans' Rotary Digger with Vernam's improvement on spading machines, and its object is a deep and thorough pulverization of the soil, not by simply inverting, as with the plow, but forking it up, and tearing it to pieces down to a depth of eight or ten inches.

The trial was made on the grounds of Ellwanger & Barry, two miles south of the city. The soil was a medium loam, free from stone, and the ground had borne a crop of carrots, which had been harvested some time previously. The surface was uneven, and the soil wet by the abundant rains. The machine was entirely successful in its operation, and reduced the soil to a condition quite similar to that of spading or forking, except that it did not invert it, but scattered and intermixed all portions promiscously.

We need not describe minutely the machine, but shall merely point out the principle of its operation. The cut which we (the Country Gentleman) have given, would convey a tolerable impression of its appearance, if the seed box behind (with its compartments) were entirely removed, and the heavy box frame were replaced with a lighter one. A series of endless chains are furnished with projecting teeth, like harrow teeth, and by revolving on drums or cylinders, pass around with the same velocity as the horses move onward. The teeth, which are about ten inches long, are thrust down into the soil by the machine, and remain there without moving until the moment they revolve around a low cylinder or roller behind. The short turn which the chains make in passing around this roller, causes the circle, and thus to move three or four times as fast at this point as the chains which hold them. As a necessary result, this increased motion tears the soil to pieces and tosses it backwards. The machine had been made very heavy in order to guard against breakage on its first trial. The manufacturers are confident that all necessary strength may be given, even if the whole weight were reduced 800 pounds, making it about a ton and a half, instead of nearly two tons, as it now is. It was drawn by six horses, although but four had been used. It pulverized handsomely a strip of land forty inches wide at each passing, and hour, at a speed of two and a half miles an horses walked rapidly, a portion of the earth was thrown off behind two feet high; when they walked slowly, it was thrown only a few more complete in the former instance. The motion being to raise it, instead of pressing

The point which appears to us especially to need further investigation, and which would determine more or less its future value, is:

not working, and again with the pulverizing illustration-simple, efficient, used by any one, most of them. rotary cultivation should be sought as the simple latch and gate moved by hand. most economical of labor, independently of the The greatest advantage derived from ma- tion they may be. other advantages we have mentioned.

now remained essentially unchanged for thou- simple. sands of years.

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85 cows, 120 other cattle, and 55 sheep, bought half of which must be hired or borrowed for farm .- [Springfield Rep. mm ground moist, and prevent the runners from while a broken cog is undergoing repairs. catching. He hau s the straw out to the fields in bundles, and takes a good straw cutter along, with two men to cut the straw and two should be cut short-the shorter the betterand the rains and winds will work it down under the leaves, and the fruit stems will shoot done just before the fruit stems shoot. very reliable mulch, and for field culture it is perhaps better adapted than any other substance; but for garden beds where the space occupied is comparatively small, there is nothing to compare to tan.- [Telegraph.

invention.

awarded to Henry O'Rielly for his enterprize but when a machine works but little faster of arrangement are lost. and energy in this effort to find an improve- than the unassisted hands, it may be discardment on the mode of pulverization, which has ed, as a universal rule, unless extremely

2. The second point to observe in providing farm machinery, is to select such as each Three Vermont Farmers .- One man in Rich- farmer can work with his own unborrowed ford has 900 acres of improved land, and forces. A thrashing machine, for example besides summering and wintering 19 horses, that requires six or eight horses to drive, one in the spring of 1859, 120 head of cattle, pas- the occasion; or six or eight hands to man it, tured them through the season, sold them in one half of which must be collected through the fall, and received \$500 net for pasturing. the neighborhood, before a sheaf can be thrash-He also had one and a half acres planted with | ed, is an inconvenient machine, troublesome, French or Osier willow-cut from the same and not at all economical. If the farmer has six tons of green, equal to two tons peeled but two horses and two hands, he should proand dried. Cost of peeling and drying 2 cents | cure a thrasher which they can work. He per pound-worth in market from 5 to 21 cents has then complete command of his own operaper pound. Another man in Sheldon has 300 tions, and can, on any occasion, for a day, of improved land, and besides wintering 10 half-day, or less, set his machine to work, when better. When a farmer keeps but one horse horses, 21 cows, 2 oxen, 32 other cattle and he wishes a supply of grain for seed or for 225 sheep, sold last season \$650 value of bread, or staw for his cattle. Many spare or horses, \$600 value of cattle, \$400 value of stormy days may be advantageously occupied wool, \$75 value of sheep, and \$50 value of where such a convenience as this is always at hay and other produce. A man in Enosburgh hand. The two-horse tread-mills of Fmery, projecting teeth to sweep round in a larger has 330 acres improved land, and besides Pease, Wheeler, and others of Albany, and a good lot of such manure may be found under wintering \$1,090 value of live stock, sold the two-horse lever-powers of Hildreth of the horse. It will not heat in case he stands \$2,500 value market cattle, raised upon his Lockport, and others, will be sought by those who farm on a moderate scale, and would do it quietly, comfortably, and economically. Mulching Strawberries with Straw .- W. The farmer's wife will not complain of being Petrie, of Pittsburg, states that the best mulch- | relieved of boarding a number of hands requiring for strawberries is cut straw. It keeps ed to man a ponderous ten-horse thrasher, the berries perfectly clean, and if put on thick | nor will he himself get the fidgets so often, in enough it will keep down the weeds, keep the seeing all his collection of men standing idle,

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Bedding for Cattle .- All stock that is fastened in stalls should have bedding of some kind. A bed of loam or sand is better than timber of any kind; but when cellars are made under the stalls, plank floors are wanted-and these should be covered with something more compact than straw.

Sawdust is a good article for bedding, and when it is nigh by it is more convenient than loam, as it is lighter and may be procured when loam is frozen. Sawdust alone is not valuable as manure, but as a retainer of the excrements of cattle, it is a good article for vegetable growth. The feet of horses must not rest on dry planks. The forefeet in particular, should be kept moist, that the hoofs may hold the nails and has room enough, he may have a stall ten feet square, with no floor but the natural soil. Then throw on any kind of straw or litter, enough to keep his horse clean, and the stable need not be daily or weekly cleaned out; but on it-since no air can come to it.- [Ploughman.

Steeping Barley Before Sowing .- A writer in The advantages of this machine, as they tan refuse, nine inches deep instead of earth- place the nails more than two inches apart. the Homestead, recommends that seed barley appeared to us at the time, are: ing up. In this way he reports that in 1857 If nailed near the edge, and the shingle is should be steeped before sowing, in a solution he raised 675 bushels of potatoes-not a rot- green, shrinking causes it to split. If the 1. It throws the soil up and loosens it of copperas or blue vitriol, the same as is often | ten one among them-to the acre, with nothing shingle is dry and becomes wet and swells, thoroughly, instead of pressing it down as in done for wheat, says it has the effect of giving but waste tan as a covering. This is of great the nail if on the edge is crowed out of its harrowing, etc. 2. It forms no subterranean crust, as is alimportance, the tan refuse being of little or no place. He does not drive the nail quite in, but it a rapid start, and make it come up strong value, and if it be put to so important and ad- leaves sufficient to keep the shingle that covers ways done by the sole of the plow, and the and dark colored. He thinks the benefit equal tread of horses' feet in the furrow. vantageous a use as in this case, it should be it, sufficiently elevated to allow of the circula-3. The teeth clear themselves completely of to ten extra loads of manure per acre. widely known and practiced. tion of air and rapid drying.

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Tan Bark for Potatoes .- This subject is wood, leaving a smooth and flat surface, to brought before the farmers of England, by a boys to carry it on in baskets. The straw which a similar piece containing the bud, communication in the Mark Lane Express. which is to form the future tree, is fitted. and spread on top of the plants quite thick, Mr. B. Bamford claims thirty-five year's exwould consequently go over an acre in an which is sealed over immediately with collodperience in this matter; and has issued a ion. This forms a strong, impervious cuticle, hour, if the team could endure it. When the which secures a free circulation of sap on the above the straw. This mulching should be pamphlet giving his method of using it, which approach of warm weather and a perfect is briefly stated in the following: He does not union of the parts. We have no doubt that cut straw makes a cut his potatoes for setting, but sets them mannanne inches. The pulverization was, of course, whole, and the largest he can select. The Hints on Shingling .- Mr. Emerson, of Hollis, rows are thirty inches apart, and the potatoes Mass., says that shingles soaked in a thin soil was left as loose as it could lie, the whole are put nine inches from each other in the whitewash made with brine water, will last row. The land is plowed only eight inches it down, as with a harrow, or crowding it into deep, treads the manure firmly in the furrows, much longer than when nothing is used. No UNINGUNGUNGUNG a mass as in plowing. puts in the tubers, and covers them in with matter how wide the shingle is, he would not

New Mode of Grafting .- The French are practising a new method of grafting, a knowledge of which may prove valuable to American horticulturists, inasmuch as it can be performed at any season of the year, when sound matured buds can be had, whether the sap is in a flowing state or not. It is performed by removing a small piece of bark and