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PITT'S GRAIN GRINDER.

the circumference of a wheel, upon the he chiefly fed on apple dumplings! same axle with that intended for the band of the wheel as may be required. The wheel is, we should judge, about 8 inches in diameter, and 4 inches broad, and revolves in an erushing the grain. The wheel seen on the left side, is merely for the purpose of equalizing the motion by its momentum.

These machines are made by Messrs. Beckett & Phillips, and are also for sale at the Agricultural Warehouse.

FRUIT TREES. AND THEIR

MANAGEMENT. In this, and in the next two or three numbers of our paper, we shall enter into a full consideration of the interesting and important subject of Fruit Culture, so as to cressry to its successful prosecution. Very tion of good orchards in this Province. The formation we can gather from other sources,

pressing wants were to be satisfied first; of rural economy the best means of doing so. and the poor emigrant, or native settler, who had moved his family into the "bush," and without money or means, save his bright axe and his own strong arm, had carved himself a farm out of the wilderness, felt but too happy if he succeeded in procurmg the absolute necessaries of life, without much regard to its luxuries, or even to its comforts. An orchard was hardly thought of; and if it was, " why it is so difficult to get trees, and we can't spare the time; they cost money, and then it will take them so long to grow : Mr. B., our neighbour, took a great deal of pains to get some trees, and planted them, but they all died, or the mice girdled plast of them, and the cattle broke down the rest;" and so the thought of an orchard was abundoned. The few who knew the value of an orchard, and took the " trouble," spared the " time." The above is the external appearance of and spent the "money." to obtain a few one of the most useful inventions of the day. good trees, often found themselves hum-It is a Grist Mill on a small scale, and at a bugged by speculators, who had sold them cheap price, viz: £10. We have never seen pretended Golden Russets and Newtown one in operation, but from the accounts Pippins, that were no better than they which are given of it in the American pa- might have raised from the seed. But pers, it answers an admirable purpose. It most of these obstacles to the general cul-will chop or grind (it is said) from 15 to 20 ture of fruit trees in this part of Canada bushels of oats, pease, barley, or other coarse are now removed. The only serious diffigrain in an hour. It can easily, as the rea- culty in the way is the habit of doing der may see, be moved about from one barn without fruit, which has become so fixed to another, and as Trashing Machines are and powerful with many, that we fear it now in pretty general use, two or three will require another generation to get rid of or the palate, are nevertheless the types of exist under natural circumstances only.

neighbors might purchase one of these its influence. Those who have enjoyed the our garden varieties. Destined in these of these species of fruit-trees, and adopt it "Grinders" between them; and with the pleasure, the healthfulness, the laxury, and thrashing machine horse-power, make it a the profit of a well-selected, well-trained most profitable affair. The cost in such a orchard will never, if they can help it, be case would be triffing, and the time and ex-pense of running seven or eight miles to orchards in the country, and some good mill, as many are obliged to do, every time a nurseries, which, together with foreign imbushel of grain is required to be chopped, portations, are every year supplying the might be saved. With all large farmers who materials for more, we hope in a few years keep a numerous stock these machines will to see every farmer possessed of this most be indispensible. A more particular descrip- useful and indispensable appendage to a tion is hardly necessary, as all who may wish well-cultivated farm. The advice of Dr. to purchase such an article will probably Johnson, the literary giant of the last make a personal examination. The teeth century, though somewhat ludicrous, dewhich cut the grain are made of steel, about serves to be remembered. "If possible," ¿ or § of an inch square, and I inch long .- said he, to a friend, "have a good oreliard: One end is ground off like a plane iron or I know a clergyman, of small ancome, who chisel. These are arranged in rows across brought up a family very reputably, whom

We have had just experience enough in the which is seen in the cut. The teeth are con- management of fruit trees to give us a relish fined to their place by a very simple contri- for every thing that will throw any light vance, and can be made to project a 16th or on the subject, and to appreciate its iman 8th of an inch beyond the circumference purtance. Among other late and valuable works which we have procured, to assist us in our labours, we ordered a copy of " Downing's Fruits and Fruit Trees of America," iron casing, one side of which is brought which contains the latest and best informaclose to the teeth, and is prepared to assist in tion upon this fruitful subject. Everything relating to the culture, propagation, and management of fruit trees generally is explained in the fullest and plainest manner. together with descriptions (accompanied with drawings) of the finest varieties of fruit, both native and foreign. Grafting and budding are so clearly described, that any one with a spark of invention, and who can understand their mother tongue, will be able to perform these operations successfully, with no other assistance than may be had from Mr. Downing's book. We shall make such extracts as lay before our readers the information ne- appear most likely to prove useful to our readers, and shall intersperse them with little attention has been paid to the cultiva- observations of our own, and whatever in-

the forest as speedily as possible. The most make improvement in this important branch

The following is introductory, and must be rend before that which comes after it can be properly understood :-

THE PRODUCTION OF NEW VARIETIES OF FRUIT.

In our survey of the culture of fruits let us begin at the beginning. Gradual amelioration, and the skilful practice of the cultivator, have so filled our orchards and gardens with good fruits, that it is necessary now to cast a look back at the types from which these delicious products have sprung.

In the tropical zone amid the surprising luxuriance of vegetation of that great natural hothouse, nature offers to man, almost without care, the most refreshing, the most deicious, and the most nutritive fruits. The Plantain and Bananna, excellent either raw or cooked, bearing all the year, and pro-ducing upon a rood of ground the sustenance of a family; the refreshing Guava and Sapodilla; the nutrious Bread-fruit; such are the natural fruit trees of those glowing climates. Indolently seated under their shade, and find-ing a refreshing coolness both from their eververdant canopy of seaves, and their juicy in detail. fruits, it is not here that we must look for the patient and skilful cultivator.

But, in the temperate climates, nature wears a harsher and sterner aspect. Plains white birch and the black birch; or, to confine bounded by rocky hills, visited not only by ourselves more strictly to the matter in hand, genial warmth and sunshine, but by cold the different species of cherry, the wild or winds and seasons of ice and snow; these bird cherry, the sour cherry, the mazzard are accompanied by sturdy forests, whose cherry, &c. These species, in their natural outskirts are sprinkled with crabs and wild state, exactly reproduce themselves; to use a ch. rries, and festooned with the clambering common phrase, they "come the same" branches of the wild grape. These native from seed. This they have done for centuries, fruits which at first offer so little to the eye, and doubtless will do forever, so long as they transforming her.

motte or a Beurre, the Almond is deprived be identically the same. of its bitterness, and the dry and flavourless perfections, and in the midst of thorns and forces nature to yield to his art.

These improved sorts of fruit which man bear, almost equally with himself, the impress of an existence removed from the and habit of growth, many of the seedlings do
natural state. When reared from seeds not entirely resemble the original species. they always show a tendency to return to a: When they come into bearing, it is probable wilder form, and it seems only chance when we shall also find as great a diversity in the a new seedling is equal to, or surpasses its size, colour and flavour of the fruit. Each of parent. Removed from their natural form, these individual plants, differing from the these artificially created sorts are also much original type, (the mazzard) constitutes a new more liable to diseases and to decay. From variety; though only a few, perhaps only these facts arises the fruit-garden, with its one, may be superior to the original species. various process of grafting, budding and other means of continuing the sort; with also its sheltered aspects, warm borders, deeper soils. and all its various refinements of art and

In the whole range of cares and pleasures more interesting than the production of new very few; while if gathered from a garden the seeds that the lover of fine fruit usually moves from a wild state, though still a maxundertakes to stock his garden and orchard zard, the seedlings wal show great variety of with fine fruit trees. Raising new varieties character. is always a slow, and as generally understood, a most uncertain mode of bringing about the result. The novice, plants and carefully watches his hundred seedling pippins, to find at last, perhaps, ninety-nine worthless or indifferent apples. It appears to him a lottery, in which there are too many blanks to the prizes. He, therefore, wisely resorts to the nore certain mode of grafting from well known and esteemed sorts

great object has always been to clear away in order to place before all who desire terreproducing themselves; and eccasionally, etable races france from the his his pass.

there springs up a new and delicious sort, whose merits tempts us to fresh trials after perfection.

To a man who is curious in fruit, the nomologist who views with a more than common eye, the crimson check of a peach, the delicate bloom of a plum, or understands the epithets, rich, melting, buttery, as applied to a pear, nothing in the circle of culture, can give more lively and unmixed pleasure. than thus to produce and to create-for it is a sort of creation—an entirely new thing that has gone before. And still more, as varieties which originate in a certain soil and climate, are found best adapted to that locality, the production of new sorts of fruit, of high merit, may be looked on as a most valuable, as

Beside this, all the fine new fruits, which, of late, figure so conspicuously in the catalogues of the nurseries and fruit gardens, have not been originated at random and by chance efforts. Some of the most distinguished pomologists have devoted years to the subject of the improvement of fruit trees by seeds, and have attained if not certain results. at least some general laws, which greatly assist us in this process of amelioration. Let us therefore examine the subject a little more

In the wild state, every genius of trees consist of one or more species, or strongly marked individual sorts; as, for example, the

of these species of fruit-trees, and adopt it it is here that we find man ameliorating and into our gardens. So long as we cultivate that individual tree, or any part of it, in the Transplanted into a warmer aspect, stim- shape of sucker, graft, or bud, its nature will ulated by a richer soil, reared from selected not be materially altered. It may, indeed, seeds, carefully pruned, sheltered and watch- through cultivation, be stimulated into a more ed, by slow degrees the sour and butter crab luxurant growth; it will probably produce expands into the Golden Pippin, the wild larger leaves and fruit; but shall neither alter sear looses its thorns and becomes a Berga- its fruit in texture, colour, or taste. It will

The process of amelioration begins with a Peach is at length a tempting and delicious new generation, and by sowing the seeds.
ruit. It is only thus in the face of obstacles. Some species of tree, indeed, seem to refuse in a climate where nature is not prodigal of to yield their wild nature, never producing any variation by seed; but all fruit-trees and closs, that MAN THE GARDENER arises and many others, are easily domesticated, and more readily take the impression of culture.

If we sow a quantity of seed in garden soil verywhere causes to share his civilization, of the common black mazzard cherry, (Cer-

It is worthy of remark, that exactly in proportion as this reproduction is frequently repeated, is the change to a great variety of forms, or sorts increased. It is likely indeed, that to gather the seeds from a wild mazzard In the whole range of cares and pleasures in the woods, the instances of departure from belonging to the garden, there is nothing the form of the original species would be It is not indeed by sowing tree, itself sometime cultivated, or several re-

Once in the poression of a variety which has mored out of the natural into a more domesticated form, we have in our hands the best material for the improving process. The fixed original limbit of the species is broken in upon, and this variety whicheve have created, has always afterwards some tendence make further make further departured from the form. It is true that all er most of its seed lings will still retain a likeness to the pi Notwithstanding this, every year, under but a few will differ in some respects, and it the influence of garden culture, and often is by seizing upon those which show symp-without our design; we find our fruit trees