should have talked and demeaned myself like respect. mere matter-of-fact men, until I felt that I had risen to the level of the men of mind, and had attained the mastery of their method. I ripeness, and would come away easily upon turist :

the touch of a little finger. I ought not have torn it off violently and with difficulty, while its humors were yet crude, to the laceration of the parent tree, the torture of my own inward man.

The first Saw Mill.

Science.

split the logs with wedges, and inconvenient state of feeling, approaching to exhilaration. as the practice was, it was no easy thing to Wishing to have such an atmosphere at compersuade the world that it could be done in mand. I constructed a cold grapery, in which, any better way. Saws were afterwards in whenever it has been convenient, I have pastroduced for the purpose of preparing timber sed the hours of reading and study. The and boards, and "saw-pits" were then inven- climate of a cold green-house in a sunny day ted for the action of the two-handed saw. of the winter or spring, is a Florida climate, This mode of sawing logs, was greatly in use and is entirely different from that of an artiin New England, where water power could ficially heated atmosphere. I venture to renot easily be obtained, in the early part of the commend it under most circumstances to pulpresent century-and probably there are monary invalids, in preference to the more places yet, where they are known and render expensive plan of removal to the South, inuseful service. Saw mills were first used in volving, as it does, much discomfiture, inter-Europe in the 15th century : but so lately as ruption of business, hazardous exposure, and 1555, an English ambassador, having seen a entire separation from friends." saw mill in France, thought it a novelty which deserved a particular description. It is amusing to see how the aversion to labor-saving machinery has always agitated England. The first saw-mill was established by a Dutchman, in 1663; but the public outcry against the new fangled machine was so violent, that the proprietor was forced to decamp with more expedition than ever did a Dutchman before. The evil was thus kept out of England for several years, or rather generations; but in 1768 an unlucky timber merchant hoping that after so long a time the public would be less watchful of its own interests, made a rash attempt to construct another mill. The guardians of the public welfare however, were on the alert, and a conscientious mob at once collected and pulled the mill to pieces. Such patriotic spirit could not always last, and now though we have now here seen the fact distinctly stated, there is reason to believe that Saw-mills are used in England propelled by both water and steam power.

my wisdom? Clearly, to reserve these rough two streams of water for half an hour longer, lars, their natural health and vigor has become astrous effects of which on trees are everysketches of my intellect for secret service, to show its power to keep up steam, and final-sickened and disordered-reason should teach where visible in low, moist lands. and not to set them forth for show; to veil ly, to prove that fire may be extinguished in any man that anything taken from its natural For the want of the proper location and from the vulgar eye the unseemliness of my confined places by steam alone, without de-element cannot thrive long and will naturally preparation of the soil, I am of opinion that mind, while in its rudiments; to employ in luging a building with water, a section of In-sicken and die; this, Sir, I believe to be the more than one-half of all the fruit trees which its "airy portraiture" for exercise, in order dia rubber hose was attached to the boiler, only and real cause of their failure; some have been planted in New England for the that it might so learn to labor finally for use; and steam passed off through it. It sent forth may ask why some fields will fail and others last twenty-five years, have either died out, or just as the young painter will work off a hun- a vast volume of steam sufficient to saturate not; there is likewise a natural cause for that. have failed to produce vigorous and durable dred sketches for the fire, before be can finish the air and penetrate into every crevice where I have noticed for some years that the dis- subjects; and I hesitate not to express as my one for public exhibition. In the mean time, fire could possibly lodge, completely extin- temper takes place immediately after heavy belief, that those which have survived would. I should have holden to the old adage, "Lo-guishing it. The machine ran up hill, down showers of rain, now you have frequently seen with the requisitions above named and care quendum ut vulgus, sentientium ut docti." I hill, and was perfectly manageable in every after heavy showers a sulpherous mineral stand- in transplanting, have attained double their

Value of Green-hcuses to Invalids.

DR. A. H. STEPHRNS, of Astoria, N. Y

"Having for many years suffered from a pulmonary complaint, I am led to avail myself of your Journal, to offer some observations on a subject lying midway between our

respective callings. Some ten or twelve years since, in visiting the green-house of Mr. Niblo, then my neighbor in Broadway, during the winter, I found the atmosphere exceedingly congenial. It abated my cough, rendered the expectoration loose and easy, soft-The old practice in making boards was, to ened the skin, and induced a comfortable

Che Farm.

THE FARMER'S LITTLE SON'S GARDEN.

A little garden I have got; It is a small, but pretty plot,

I had it from papa. And he has given me seeds to sow. And roots of flowers that soon will blow : And they will yield me-that I know,

A posy for mamma.

I love to dig with my small spade, And weed the beds that I have made;

And in hot weather, I Must water all the roots around, Or else my flowers will soon be found All drooping to the thirsty ground, And very soon would die.

ly my own. What, then, would have been hundred and twenty-four feet. It then threw nine months in the year to air and heat of cel- can ever remain to injure the roots, the dis-

ing on the water, where it stands in puddles present size and productiveness. Without a in many places, and I find wherever showers compliance with these principles, our advice fall charged with this when it penetrates the would be not to plant, and thus save both time earth and comes in contact with the potato it and money.

should have let my raw fruit hang and sun long so eminent in his profession, furnishes is like yeast in dough, it sets it immediately We cannot refrain also from alluding to the itself upon the tree, till it was penetrated with the following interesting fact to the Horticul- in operation-these showers don't extend ge- great care which is requisite in the removal nerally over the country and fall heavier in of trees from the nursery. Of all careless some places than others, and some escape al- things done in the way of cultivation, nothing together; this I believe to be the cause why is more to be censured than the barbarous some escape and others not. Now for a re- manner with which trees are too frequently medy :-In the first place we could get new raised, or rather stripped out by main force seed where it was got first, without doubt that without digging, thus destroying not only the would be good, but it would be attended with small, tender roots, but splitting and mutilatgood deal of expense, and it would be a long ing the main ones. I rejoice in the belief ime before it could be spread generally that this practice is less common than formerthroughout the world, but experience has ly, and that it has in some of our best nursetaught me an easier remedy, viz : I have for ries been reformed altogether.

three years past taken potatoes in the Fall and Now it is principally on the young fibrous buried them in the ground similar to planting roots that newly transplanted trees must de--dug them up in the Spring and planted pead for receiving nourishment, and just in them, and in the Fall they had no signs of rot proportion as these have been destroyed, will or rust. When you dig your potatoes dig be the development of new wood, and the shallow ditches not more than one foot deep, ratio of its growth; for every branch has its or nine inches will do, fill them half full of correlative in the root, and wherever a tree potatoes, cover them over with earth similar has been deprived of its roots, the branches to planting, mixing the earth well through must be reduced in proportion, or it will take them, leave the surface of the earth level to a long time before equilibrium can be restorkeep out the frost, the cooler they are kept ed and vigorous and healthy action again reand escape the frost, the better, dig them up sumed.

in the Spring and plant them -follow this method a few years and I have no doubt you will sult from crowding and doubling back the restore them again to perfect health. By roots of a tree into a hole just large enough to keeping them in the earth where they natur. contain them, or from deep planting-for ally belong, it extracts the poison or disorder roots, like human beings, delight in the healthfrom them and restores them again to their ful influence of light and air. Trees should natural health-your seed potatoes should be therefore be planted shallow, and we have met kept in this manner-this has proved to be with good success where they were planted ISRAEL CALKING. the result with me. Wicklow, March 24, 1853.

The Cultivation and Preservation of Fruit.

There are three considerations which are absolutely necessary to the successful cultivation of fruit trees, viz :---

The appropriate soil and location :

The proper preparation of the soil; and The judicious selection of varieties.

By the appropriate soil, and location, is ticularly our own, have proved to be hardy, meant that which is naturally suited to any particular class of fruits. Nearly all our productive, and of good quality. Experience fruits will succeed in a deep mellow loam, has shown that many kinds which have been but the cherry, the peach, and even some highly lauded in the catalogues of the day. are not suited to our region, whatever may kinds of the apple, will flourish on a soil have been their excellence in other places. where the pear will survive but for a short More than three-fourths of all the foreign vatime. Some varieties require a warm soil and southern exposure; others will succeed with rieties which have been introduced within the last thirty years, are unworthy of cultivation. a northern aspect, and under less genial influences. Some prosper in the Eastern, Mid- or are not adapted to our location. Much dle, and Western States; others only in one disappointment has therefore been experiof these regions. But the subject of soils and enced from this source, as well as from selocation occupies so wide a field of research. lecting varieties which have no other excellence than a fanciful or crackjaw name. To that we cannot enter upon it at length during remedy this evil, and to diffuse correct inforthis discussion. mation on this point, I have, in compliance In relation to the proper preparation of the with frequent solicitations, prepared a list of soil, all intelligent cultivators agree that thorough sub-soiling, or trenching, is not only approved varieties in the various classes of fruits. In submitting this list, I have regardthe most judicious system, but in reality the most economical, in the end. The first great ed the combined character of both the tree and the fruit; for instance, the health, vigor principle, however, to be attended to, is comand fruitfulness of the one, and the flavor, size. plete and perfect drainage; for wherever and beauty of the other. water is permitted to remain, no tree can long continue in health. Stagnant water is Agriculture. as injurious to vegetable life as the miasma As Agriculture is one of the arts essential to Mr. Editor, --- If you consider the following and malaria of pools and marshes to animal observations worthy of a place in your paper life. The drainage must not only be perfect, the existence of society, it was cultivated in you can make use of them. I have like many but its depth must be such as to prevent en- the earliest ages of human history. Cain was others in the world, been years trying to find tirely the roots from reaching beyond it in a tiller of the ground; Abel was a shepherd, out the cause of the failure in potatoes, I have search of food. This being accomplished, Noah planted a vineyard. That this art was The Cincinnati steam fire engine was pub- seen many cruses assigned for it by different the soil should be thorough y worked with carried to great perfection in ancient Egypt. licly tried again in that city on the 1st inst., persons, but none of them to me has been sat- manure to the depth of fifteen inches at least; is evinced by the dense population which that and the best fire engine in the city was brought isfactory; but I feel quite sure in my own and if trenched, the upper soil should be remarkable land must have sustained, in the out strongly manned to compete with it. In mind that I have found out the real cause of placed at the bottom, and the lower soil on age when the pyramids were in progress, and ten minutes the steam was up, and the engine the great evil, and likewise a remedy. In the the surface, where it will become disintegrat- Thebes was in its glory. The poem of the in operation. The firemen went to work with first place reason teaches me that the cause is ed and prepared by the influences of the at- Works and Days, by Hesiod, is a description the ordinary engine, confident of beating the a natural one, which would undoubtedly take mosphere as food, or can be enriched, as ne- of early Grecian Agriculture, and the Geornew fangled affair. The signal was given-place sooner or later. Potatoes, if I have been cessity may require. Under such circum- gics of Virgil, the Natural history of Pliny, pufft pufft went the steam engine, and away informed right, were first found growing wild stances, the roots of trees will have room to and the fragments of Columella, and other spirted the water. The firemen bore down on the banks of the Andes, in South America, search for nutrition, as wanted, and the loose writers, which have come down to us, show and up in succession, and strained every nerve, where they had been growing for ages un- and friable condition of the soil will emable in what high estimation this art was held in but gave up exhausted. The steam engine known, consequently their natural element the atmosphere to permeate through it, and ancient Rome; where generals and dictators continued unceasingly for half an hour to was to remain in the earth, but taking them the rains to penetrate, and pass off, when too returned to the plough, after the triumobs of throw a vast body, in a solid stream of two from the earth, and exposing them for eight or profuse, into the drainage, so that no water the battle field.

The same injurious consequences will renearly on the surface and soil brought to cover them. For newly transplanted trees, nothing is more beneficial than mulching the roots during the hot summer months. This may be done with coarse litter, refuse hay, or any substance which will shade the ground, and allow the rains to pass through.

As to the judicious selection of varieties, I have to remark, that the only safe course is to choose such sorts, and only such, as by uniformity of character in various localities, par-

A Rival to Caloric Already.

The Genoa (Italy) correspondent of the Newark Advertiser, writes that a complete revolution in the means of steam navigation and locomotion is anticipated from a recent invention by Dr. Carosio, of Genoa. He has. it is said, succeeded in constructing an apparatus for the decomposition of water by electro magnetism, which will introduce the gasses thus generated into the engine, in a way to save all the expense of fuel! His invention has been approved by savans and practical engineers, and a company has subscribed the means of giving it a full experiment. Means have also been adopted to secure patents in all other countries. An agent was about to leave for this country to present the matter to the patent officers.

Fire Engine.

WOLMAN L AND

My Heavenly Father loves to see, His children prize the gardens. He

Made all for our delight. The fairest garden e'er was seen. Of sweetest flowers and purest green, And shady trees o'er all to lean, Was Eden, heavenly bright.

I'm told the good may often meet Within the garden's still retreat,

Our God, although unseen; I'm told that love still brings Him nigh, And though a little child am I. Oh, make me good, that I may fly, On Thy kind arms to lean !

From the Carleton Sentinel.