

it to set forth, convinced that resting in itself, and that the eauty must be more or less hose who believe only in the tted city will, no doubt, shake this; but many times in civic cteristic has proved more atformal. It has been demonesent day, here in New York erected the new city, as need ve builded better than they ve given us not the classic, but -a later and perhaps a more

llaboration than that arranged it would be hard to conceive. ovke knows the city backwards and down, from Harlem to from the North River to the lis pages are like the informal nsely clever and amusing man ons to the things every visitor nd every resident want to know, aining, witty. As for Mr. Penthey are beyond praise as an inthe life and the architecture of e are no less than 124 of these them being beautifully reproby a process that brings out the stics of Mr. Pennell's art. In d outward appearance, the volof its authors, with its handss and its beautiful red and gold by Mr. Pennell himself. Altoolume to last, not merely for a ng as there are devotees of the

GOLDEN TREASURY

ng into one the two volumes of reasury of Songs and Lyrics, the mpany has done a real service to lish poetry. Since the appearst series in 1864, Professor Palon has been the recognized stansputed and so universal, indeed, been that the very title Goldas been used for a series of Engwhose appearance is familiar to

s of his work induced Professor arry on his task, and in 1897 a was published. The first volume poems written before 1850; the edition of which was published ined to the poetry of the second ineteenth century. But the two one book, a real treasury of lyric division into two series is the reng years consumed by Professor he arduous task of selection; re is no reason for it. In uniting lume still small enough to slip nto the pocket, the Macmillan made even more accessible the o treasuries contain.

ance and contents the new book is he two of which it is composed. es is still divided into four parts, om the poets who most give them tive character, the Books of Milton, Gray and Wordsworth, ries being undivided. It is thus cord of the best of English lyrical the day when it ceases to be too read for pleasure, down to our on. There have been many cola similar aim. None has ever he wide sympathy, the keen, unmination, and deep scholarship work of Professor Palgrave.

DME AND AMERICA

ortant works on history published are among the first of the seabooks. In The Roman Assem-. W. Botsford presents the fruits horough study that has yet been abject whose importance in govtics and history can hardly be d. The Roman popular assemblies sis of the Roman state. In treatterefore, Prof. Botsford is able to illuminate the whole history of second of the two new works is a by Prof. C. A. Beard of readings il-American government and polied with great care and discriminreadings cover a wide field. In the value of original sources has too apparent to need further disof. Beard's Readings is an excelof how skilfully the new school can use them.

ooo actors were walking the streets k going from office to office, seekents in July. Each year the prooming more crowded than ever, out the same number of companies on the road. Each year hundreds ve graduated from the schools of an equally large number join the vithout ever having gone through school. How many thousands of manage to exist from the end of the beginning of another, is a nas given many statisticians of the iderable thought. Even during the the season there are thousands of employment in New York. It that the young man or young has cast anxious eyes on the stage on would hesitate long before takis to many a precarious mode of ir daily bread.

SUBURBAN~ IP.AI. A

HOME-MADE TOOLS FOR THE AMA-TEUR GARDENER

One of the difficulties which confronts the amateur gardener in the laying out and working of the garden arises from the lack of proper or convenient tools. It is not always possible to have all one would wish in this line, especially if one has but a limited amount to spend on the garden and wishes to apply a large portion of this to the purchase of plants, seeds and bulbs; it, therefore, becomes necessary to economize, as far as possible, in the purchase of other accessories. There are, however, few tools beyond the spade, rake and trowel and a good reliable wheelbarrow but what can be evolved by one's own ingenuity and skill from the material already at hand on the place.

One of the first things which will be needed in the planting of the garden will be the garden line and reel; this may be substituted for by a ten-cent ball of wool twine and a couple of pointed stakes a couple of feet long, but for work not involving too many feet the pole and

STRAWBERRIES GROWN BY G D. M. MARTIN @

old, and were picked on September 23. Many regular feature of the market.

Here is a picture of second crop strawber-

ries. The variety is the Magoon. These ber-

ries were grown at Glen Elysium, near Cor-

dova Bay, the property of G. D. McMartin,

who has fourteen acres in fruit of various

kinds. These berries are from plants a year

pegs will be found more practical; this is pro-

duced by taking a long strip of wood two or

three inches in diameter and boring holes in

it at a distance of a foot apart along the entire

length. In the first hole at one end a stake two

feet is fitted, the hole for this being large

enough for the peg to work freely in its socket,

the head of the peg being cut away enough to

leave a shoulder for the pole to rest on and the

extreme end having a nail driven through to prevent the pole slipping off. The remaining

noles may be somewhat smaller, as the mark-

ing pegs do not need to be as large as the

stakes at the head, and may be tapered some-

what at the end so that it may be driven in

firmly, or it may have a shoulder and be se-

cured in the same way as the head peg, but the

the ground where the centre of a round bed is

be made, the marking peg inserted in a hole

which corresponds with the desired diameter

of the bed-three feet if the bed is to be six

feet in diameter-and the point held firmly on

the ground as the end is carried around the

circumference of the bed. Where the bed

should be removed a distance of three feet or

more, according to the width desired for the

paths and these marked out in the same way.

Nor is the marking out of round beds all which

may be accomplished by this handy tool, as

straight beds may also be marked by setting

the stake at one corner and the marking peg at

the other and marking off distances by the

the amateur than most any other form, but

may be easily managed by the use of a line

and two stakes. First find the length and di-

ameter of the bed desired and drive two stakes

in each side of the long way of the bed a dis-

tance from the edge according to whether the

bed is to be a broad or narrow oval. The

farther the stakes are set from the edge the

proader will be the oval. For instance, if a

six-foot-long oval is desired, setting the stakes

a foot from either end and using a cord

eleven feet long will give an oval three and a

half feet wide—a very pretty size. The cord

is made long enough to go around these

stakes and reach to the outside of the bed on

one side only and tied securely, so that it can

An oval bed presents more difficulties to

forms the centre of a circular garden the peg

In use the head peg is driven firmly into

tapered peg is the more simple.

figures on the pole.

not stretch or slip, and the pegs should be driven into the ground very firmly. The cord is slipped over these pegs, not attached in any way, and a marking peg slipped inside the cord and the cord drawn out to its limit and the ground marked in the usual way. The farther the pegs are set from the edge of the beds the wider will the oval be, so that beds of almost any diameter, from a circle down to a narrow oval, may be marked in this way.

Sometimes in laying out the garden it is best to mark the paths and let the beds fall within this circumscribed area, and a tool for this purpose sometimes comes very handy, and one may be made of a long pole with a threefour or five-foot piece made to slide thereon by cutting a slot in it large enough to hold the pole and let it work freely. In this crosspiece holes are bored as in the pole for marking beds and sharp pegs thrust to mark the

limits of the paths. A handy tool in the garden is a carrier for plants which are to be moved from work-bench to house or garden, or from hotbed to garden.

of the plants are yet in blossom. To avoid

misapprehension, it may be added that these

berries were grown in the open air. Second

crop strawberries are becoming common, and

it is just possible that as the years pass the

plants will adjust themselves to the local

climate and second crop berries will become a

This consists of a thin but strong board for

bottom with narrow strips of wood nailed on

the sides and a handle made from barrel hoops

nailed securely to the bottom and sides. It

should be at least a foot wide and eighteen

inches long and can be made in a few minutes,

better before using the hoops to soak them

a few hours in water so that they will bend

readily without cracking. Then as they dry

they will fit to position and prove very dur-

the stake and cord are necessary it will be

found helpful if bits of white twine, cotton

or even paper are fastened to the cord at the

inches, a foot or two feet-whatever the dis-

distance apart the plants are to stand-nine

inches, a foot or two feet-whatever the dis-

tance may be. Gardeners often use a long

pole with a crosspiece at one end with pegs in

each end of this to mark off two rows at a

time, this is dragged along the ground, mark-

ing the rows, but unless one is a remarkable

straight walker the results are not likely to be

satisfactory, and uncertain, wavering lines of

A handy and indispensable tool for pressing

down the soil over newly sown seeds is made

from a smooth board of any desired size-

or more for outside work-with a handle on

one side made of a straight strip of inch-

wood six or eight inches long and two wide,

the ends curved down to about half an inch

thick to admit of screwing to the board.

This is a little thing, but one that comes very

handy and if it is always at hand then the

sowing will be properly done; otherwise this

most important part of the work may be

ance, the manure barrel is a necessity in every

graden and for this a strong oil or molasses

barrel should be selected. It should be given

a coat or two of waterproof paint inside and

out, and fitted with a spigot on the side close

longevity of the barrel if the bottom is re-

inforced with a coating of cement, as this

Though not exactly a tool, but an appli-

about six by ten for the hotbed, ten by twelve

planting are far from attractive.

For marking long lines of planting where

and will save a great many steps. It will be

decay, but properly cared for will last for years, it will be found much easier to do it while the barrel is sound and good than after the bottom is on the point of falling out. Use a mixture of three parts sharp sand to one of cement, mix with water, using it quite stiff, and place about an inch in the bottom of the barrel, tamping it down until the water rises to the surface; when set, but before it becomes dry, give a second coat of clear cement, bringing it well up around the sides and about the spigot, if a wooden one is used, but not about an iron one.

In using the barrel place clean straw in the bottom-enough to come up above the spigot-and fill with manure to the top and then with water. The barrel should be placed in a convenient place and on a support high enough to set a watering-pot under the spigot. The bottom of the barrel should not rest directly on the box or whatever is used to support it, but have three or four tile inserted under the rim of the bottom; this allows the air to circulate under and prevents the decay and if the manure barrel is kept in order from year to year it is ready for use in the spring, and there is that much less to do and provide, and the cost of a barrel saved will buy a new rose or other desired plant.

WHAT ENGLAND CAN TEACH US ABOUT ROCK GARDENING

The largest rock garden in England is that of Sir Frank Crisp, at Friar Park, Henley. It is a faithful reproduction of the Matterhorn on a scale of about three acres. Seven thousand tons of limestone were brought from Yorkshire to make it. The snow-capped peak is represented by quartz. Below it are thousands upon thousands of alpine flowers growing in pockets between the rocks and filling every chink in the trials that ascend the mountain. There must be two hundred different species in bloom at once. At the base of the mountain is a miniature Swiss chalet, where one may sit and enjoy the scene, comparing all the main feaures with a little bronze model of the Matterhorn which Sir Frank had made for the entertainment of his guests. A brook courses down the mountain side and just before it reaches the chalet it forms a pretty cascade and then spreads out at your feet into a miniature lake decorated with pygmy water lilies and richly margined with pinks, primroses, gentians, and other alpine flowers. Five pictures

from this garden are here given.

As to the Matterleys feature, English criteis are divided. They do not quarrel with the Japanese for imitating Fuji, but there is no precedent in England for duplicating any particular mountain. However, all are agreed that Sir Frank's alpine flowers are grown with admirable skill and arranged with perfect taste, and the accompanying photographs well illustrate the style of rock gardening one sees everywhere in England, viz., the culture of alpine flowers in the pockets of a "rockery," which is a complicated structure, put together in such a way as to give many kinds of rock soil, and exposure. What England can teach us about this style of gardening I have tried to elaborate in the Garden Magazine for August. It is a grander theme to which I now invite your attention. For the best rockery in the world is obviously the work while the finest floral pictures we can paint are those which seem to be the work of nature.

The kind of rock gardening that offers the most brilliant possibilities to owners of Canadian estates is the painting of great landscapes on land that is naturally rocky. If you have motored over the Downs amid ten-acre splotches of scarlet made by the wild poppies n the grainfields; if you have coached through the Lake Country when miles of heather were in bloom; if you have rested your eyes during a hot summer noon on a cool expanse of ferns clothing a beetling cliff; if you have felt the centuries look down upon you from castle cathedral ruins crowned with great colonies snapdragon or red valerian; or if you have gazed upward at the harebells and rowan waving above a cascade in the Scotch Highlands,

you will know what I mean. Amidst such beauty my heart sank when I emembered the advertisements painted on conspicuous rocks in America. (How soon shall we have laws that make it a criminal offence to ruin a landscape in this way?) And thought of the fortunes spent at Newport and in Connecticut in blasting out rocks and burying them in order to make lawns amid some of the wildest and most picturesque scenery on the Atlantic coast. There is nothing prettier than a lawn-in its proper place, and nothing more costly, vexatious, or futile than a lawn where nature does not want one. I believe we have spent millions in carting off rocks and carting on soil to attain a commonplace and conventional beauty, where thousands would have sufficed to restore and develop the inherent beauty of the region.

There are two kinds of pleasure anyone may have in making a house and garden. The easy and obvious pleasure is to incorporate all the ideas we like best, to choose a style we have admired elsewhere, to plant the flowers we love best. Such efforts produce houses that do not fit their environment and gardens that lack distinctiveness and charm. The finer and surer pleasure comes from discovering the hidden laws and in giving them the fullest expression. No houses in the world fit their to the bottom, and it will make for the surroundings better than the stone farmhouses abnormally high rainfall of the region. No evergreen ground covers, in which America is America. will probably have to be done sooner or later, as barrels used for this purpose are prone to

rocky land at Haverford, Pa., where the characteristic beauty of rock-loving plants is allowed the fullest expression.

I came home from England with a determination to find out what rock-loving plants are native to America, and what sort of pictures we can make with them. The first encouragement I got was from the catalogues of specialists who collect native plants. These men offer about fifty species of rock-loving flowers at prices ranging from \$8 to \$30 per 1,000, or at the rate of one to three cents a plant. Doubtless the plants are not as good as nursery-grown plants, because the roots have little or no earth about them. Doubtless they have to be handled more carefully until they become established. But the cheapness of them is astonishing, compared with nurserygrown plants. The saving may be anywhere from 100 to 500 per cent.

Suppose, now, you have a bit of rocky woodland that contains few wildflowers because picknickers have taken them, or cattle have been allowed there. For \$15 you could have 1,000 plants of dog's tooth violets or Dutchman's breeches, or mandrakes, or wood sorrel, or the dainty little alum root. For \$20 you could have 1,000 plants of hepatica or maidenhair fern or false Solomon's seal, or Thalictrum Cornuti, or the voilet wood sorrel. For \$30 you could have 1,000 clumps of spring beauty, or 1,000 trilliums. Even if the plants were fairly common in your neighborhood it would be impossible, in some cases, for you to collect the plants as cheaply as this.

Or, if you have the rocks exposed to full sunshine there is still a good choice, even in a climate that is hot and dry in summer. For \$3 you could have 200 hardy cacti. (No one would want 1,000 cacti, because they are too suggestive of the desert) There are several stonecrops or sedums which will grow in a pinch of soil on rocks that are so hot you can hardly touch your hands to them. For \$10 you can have 1,000 Sedum album. For \$20 you can have 1,000 Sedum ternatum, or bloodroot, or moss pink, or bird's foot violet. For \$25 you can have 1,000 scarlet columbine, wild blue phlox, pine barren sandwort, or even American bluebells (Mertensia Virginica). For three or four cents each you can get the dwarf early flags (Iris cristata and verna), bluets, and the thyme-leaved speedwell.

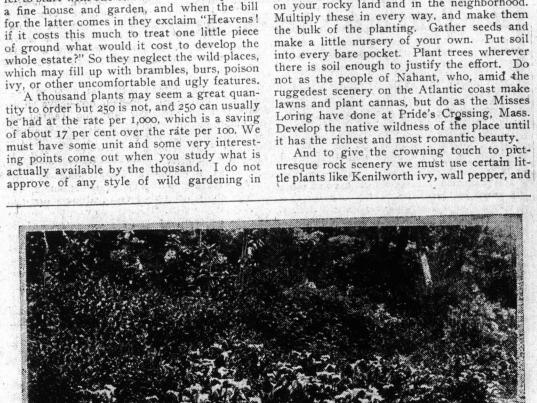
This method, I believe, solves the hardest problem of all, viz., that of expense. Few people will not pay as much to develop rocks, woods, and other wild places as for the immediate environment of the house. That is right, too. But the great trouble with American estates is that owners rarely see the necessity of having a comprehensive plan for the development of the whole place. They prefer to start with one or two details. They build a fine house and garden, and when the bill

garden in the world is lovelier than a bit of very rich. The finest are partridge berry and wintergreen, because these have red berries that last all winter. Think of getting 1,000 plants of partridge berry for only \$15! I know one collector who sends them in regular sods, two or three feet square, each sod counting as perhaps a dozen plants. Galax leaves are also a joy in winter, being green in the shade and bronze in the sun. A thousand galax cost \$40 or less. Prince's pine costs about \$20; Labrador tea only \$10. I wish some one would try Hypericum Buckleyi, which is said to be a fine ground cover in shade, and has yellow flowers in summer. It is quite proper to use foreign flowers in wild gardening provided they look like wild flowers and multiply with little or no care after becoming established. But it is not appropriate to use flowers that have been greatly improved by man, such as large pansies, or anything that suggests ceaseless care and expense. For instance, wallflowers and snapdragons are perennial in England, but here they cannot be relied upon to last over the winter. Therefore they belong in the garden, not the wild garden. The expense of raising flowers every year from seed is not appropriate to wild or rocky land, even if a person can afford it. But annuals that 'self-sow" are welcome.

The six most popular rock plants in England, as nearly as I can judge, are primroses, pinks, saxifrages, purple rock cress (Aubrietia) and the rock roses (Cistus and Helianthemum). Broadly speaking, I believe we can never rely on these for large effects, except in the case of pinks. I am rather glad that most of these flowers will not flourish permanently in America, except on a first-class rockery, for no country ought to imitate the landscape effects of a radically different climate. From the list of wild flowers given above I hope we can develop an American style of rock gardening. That style, I believe, must grow out of the following facts: Our summer s hot and dry; summer is our national vacation time; we flock to the mountains and seashore, where rocky land is often prominent; and finally labor is costlier here than in Europe.

But the cheapest and most permanent way to beautify rocky land is not to plant flowers at all. Instead, we should plant trees, shrubs, and vines. These will hold the soil, add to it, give grateful shade and cool greenery, and last a lifetime. A thousand pitch pine seedlings can be collected for only \$12. The most fitting vines for decorating or obscuring rocks are Virginia creeper, bittersweet, and wild clematis. Among the most precious bushes for rocky land are bayberry, sweetfern, and fragrant sumach, all of which have deliciously scented foliage, so refreshing on a hot day. need not enumerate a great list for we have an infallible principle to guide us. Find out every kind of tree and bush that grows wild on your rocky land and in the neighborhood. Multiply these in every way, and make them the bulk of the planting. Gather seeds and make a little nursery of your own. Put soil into every bare pocket. Plant trees wherever there is soil enough to justify the effort. Do not as the people of Nahant, who, amid the ruggedest scenery on the Atlantic coast make lawns and plant cannas, but do as the Misses Loring have done at Pride's Crossing, Mass. Develop the native wildness of the place until it has the richest and most romantic beauty.

And to give the crowning touch to picturesque rock scenery we must use certain lit-



Arum Lillies Growing in the Open

which the plants cost more than five cents each, even if a person can afford it. For the best wild gardening costs less than any other style of gardening. All the plants mentioned in this article are hardy perennials, which ought to multiply with little or no care after becoming established, as the whole object of wild gardening is to produce large, permanent colonies such as glorified the woods, rocks, and meadows when the first white men came

to this country. Even in the winter we can make some of the rocky land beautiful, at least when the native stone in such a way as to resist the ground is not covered with snow, by using land?-Wilhelm Miller, in Country Life in

New Zealand moss, which have a genius for filling every chink, especially under foot. For these plants give the effect of age, obscure, freshly cut surfaces, round off sharp corners, and constantly excite wonder and delight by transforming a mere trowelful of dust into a soft green cushion, pleasant and yielding to

Haven't you a bit of rocky land that contains some dramatic feature? A spring, a brook, a dripping well? Why not develop a small piece along these lines? And why not have a comprehensive plan for all your rocky