THE FLOWER GARDEN.

Libonia Floribunda.

This plant is a native of Brazil, and was first in troduced into cultivat on about ten or twelve years since, by its discoverer Libon, after whom it was since, by its discovere Libon, after whom it was named. It belongs to the natural family of the Ac inthaceae, and torms a neat bush about 1½ or 2 teet high, with downy stems and branches which are somewhat swollen at the joints. The leaves are small oval lance shaped, opposite, of a fine glistening of on the upper urtale, and whitish underneath. The flowers, which are very numerous, are tubular in shape, and of a scarlet color, tipped with yellow at the mouth. They usually begin to appear in January, and the plant continues to bloom until March or April. It remires the heat of a molecular warm or April. It requires the heat of a moderately warm plant house, and thrives in a compost of sandy loam, leaf mould, and heath soil. It has been objected against this plant, that it is very prone to shed its against this plant, that it is very prone to shed its leaves unsersonably, and so becomes unsightly This, however, may be avoided by keeping it in a steady, equable temperature. If placed abruptly in a high temperature, the leaves are sure to fall. The plant is easily multiplied by cuttings struck in heat. The following mode of culture, communicated by M. Bisson to the Review Hortecole, is stated by him to be confirmed to the confirmed manner of the state perfectly successful in preventing the plants from lesing their leaves. "I stike my cuttings in spring; when they are well-rooted I plant them out, at distances of 7 or 8 inches in a well-drained bed, composed of half sand and half spent hot-bed material, and keep them covered with a frame until all danger from frost is over. I admit air by degrees, finally removing the frame altogether, and leaving the plants m the open air until the end of September, when I transplant them again into a bed of the same material, and cover them with a frame, under which I leave them for a month or six weeks, when I remove them to their permanent quarters in the plant-house, and and that they turn out equally well whether I place them in a warm house or a temperate one. Plants a year old, treated in the same way, succeed quite as well. I cut them back and prune them in before planting The Garden.

Lily of the Valley

The flowery month of May produces no plant more exquisite either in form or fragrance than this. Most plants have an especial beauty of their own—a somethat is capable of endearing them thing distinctive to us, but this hly has attractions peculiarly its own. The graceful manner in which its pretty white bells The graceful manner in which its pretty white bells hang on the stender, arching stems, and the agreeable contrast which they make with the bright green to lage, have rendered this little flower not only a tavorite with all parties, but especially so with our poets. This little modest flower formerly grew in our woods and valleys in great abundance, but increased cultivation has rendered it comparatively rare in a natural state. In gardens, however, it is the most cherished of all hardy flowers, and the quantities of it used for forcing in early spring would surprise the uninitiated in these matters. Old writers on gardening tell us that about the end of writers on gardening tell us that about the end of the fifteenth century it grew abundantly on Hamp-stead Heath, in Bushy Park, at Lee, in Essex, and indeed in most counties in England. It grows plenindeed in most counties in England. It grows plentifully in the woods of France and Germany, and is indigenous to most parts of Europe—from Italy to Lapland. It is sometimes called May flower; but as it grows spontaneously in shady places, though not in reality a hly, the name bly of the valley seems a natural one. The best situation in which to place this hly in the garden is where it will be partially shaded by shrubs and trees, and it flowers even better in a north aspect than the fully exposed to the noonday sun. It will succeed in almost any kind of soil, but it blossoms in greatest abundance m a light soil, rather poor than otherwise; for, when planted in rich garden earth, the roots spread and multiply rapidly, but the plants produce but few flowers, and, like many other exceping-rooted plants, it seldom seeds. This hly may be planted with advantage by the sides of water where, beneath the branches of some weeping willow, or other pendulous tree, its fragrance quite scents the air. Autumn is the best time for placing the roots of this lily in the ground, in which they should be covered about two inches in depth, and should not be disturbed oftener than every third or fourth year, as they seldom flower strongly or plentifully the year after being removed When above ground they will require no other attention than that of keeping them free from weeds. Lily of the valley is said to be so abundant in woods in Hanover that the ground in many places is completely carpeted with it, and the air to a considerable distance scented with its agreeable per. means, choice plants may be increased indefinitely.

fume. In Germany it used to be common to make a wine of these flowers, by drying them in the summer, and in the time of vintage mixing them with grapes when pressed. A snuff has also been sometimes made of the dried flowers and of the leaves and esseptial oil of Marjoram. The fresh blossoms, gathered while wet with the morning dew, have also been used for purposes of distillation The Garden been used for purposes of distillation

Sleeping Flowers.

Almost all flowers sleep during the night. The mangold goes to bed with the sun and with him they close their leaves during the passage of a cloud. The dandelion opens at five or six in the morninand shuts at nine in the evenue. The goat's lead The dandelion opens at two or six in the and shuts at time in the evening. The goat's lead wakes at three in the morning, and shuts at five or six in the evening. The English daisy shuts up its blossoms in the evening, and opensits "day's eye to the early beams of the morning sun. The meet the early beams of the morning sun. The crocus, tulip, and many others close their blossoms

Tulips.

Of the several species of the tulip, the common, or Tulipa Gesneriana, on account of its hardness, brilliancy and wide and easy cultivation, has been termed "the poor man's flower," as well as "the king of florists' flowers." It was brought to Europe from Persia, by way of Constantinople, over three hundred years ago, and becoming an object of trade in the Netherlands, single bulbs sold for two or three thousand dollars or more, giving origin to the name thousand dollars or more, giving origin to the name "tulip fools." The mania afterwards extended to England, but more recently it has given way to a taste for rare plants from foreign countries. A correspondent of *The Garden* furnishes the following list of species and their native localities, taken from Tchihatcheff's "Asic Mineure." "Talipa armena "Tulipa armena grows at an elevation of 6,000 feet; T. montena found on the Troad, Mysia, at Erzeroum, and on Mount Ararat, at elevations of from 6,000 to 9,000 feet, T. Gesucriana, found in Armenia at from 6,000 to 7,000 feet; T. Julia, also found in Armenia, T. undulatifolia is found in rich pastures near the top of Mount Tahtaln, near Smyrna; T. Sibthorpiana is of Mount Tahtain, near Smyrna; T. Sibthorpiana is found at Makri, on the Lycian coast, and at Porto Cavaliere. Two species not noticed by Dr. Regel are also mentioned, namely, Tulipa pulchella found by Kotschy, in the Silician Bulgardagh, at an elevation of 6,000 to 7,000 feet (Ky. Reise in Cilic Taur., p. 379), and Tulipa Thirkiana, C. Koch. (T. tricolor, C. Koch, in Linn., xix., non Lideb.) [sic in Tchnhatcheff], found near Broussa." To which we may add that there are several other species. add that there are several other species, some of which are difficult to distinguish from each other, and a few known to cultivators, under the name of Van Thol's, Turkish tulip, and Clasino's and Cels, the last two elegant little border bulbs.—Country

To Root Roses and other Cuttings.

In midsummer fill an old milk-pan (says a cor respondent of the Laws of Life) with the purest sand obtainable; set it full as you like of cuttings suitable for rooting, that is, fresh growing shoots of her-baccous plants, that when bent suddenly will snap off, or new growths of roses and other woody plants; pinch out the terminal bud and take off all the leaves pinch out the terminal but and take of all the leaves except the two upper ones; insert two or three joints of any cutting below the surface of the sand. Place the pan out of doors where the sun at no time of the day will strike it so as to wilt the leaves, and keep the sand all the time wet as mud, using warm water. It may need to be wetted twice a day to keep sufficiently moist, as evaporation soon as the shps show growth, pot them off in thumbpots in light, rich soil, largely mixed with sand so
that the new forming roots may have free course.

Keep them shaded and well watered; they are more easily cared for it set in a box of moist tan bark or sand, and as the pots till up with roots, transfer to larger pots in stronger soil, as the different plants may need. If there is a suitable place for them they may be set out at ouce m a horder. By this simple

Artificial Flowers of Tin.

In a recent number of a Berlin journal we find the following directions for making accurate copies of natural flowers and leaves from ordinary sheet tin: The method is somewhat similar to that employed for wax flowers, each the dies, of course, require to be made of stronger material. The leaf or petal to be copied is first oiled on one side, and then laid lightly upon some dry plaster of Paris, or very find sand, in such a manner that the oiled surface is uppermost. A little bank of clay is built around it and the mix-ture of plaster of Paris and water poured in, care being taken to remove the an bubbles with a soft brush. In tead of plaster of Pans melted stearme, mixed with powdered gypsum, may be employed, where the leaves are quite thick and strong. Very delicate leaves must first be punted over with a brush dipped in soap, water, after which several thin layers of plaster of Paus are applied with a brush, fine wire being introduced to give it irmness. The leaves thus propared are either oiled or used to make plaster easts, or they may be coated with black lead and have copcloses forever at four in the afternoon. The might-stamp having been formed, the matrix, or lower flowering cereus turns night into day, it begins to stamp, is easily made from this. The tin is first cut expand its magnificent sweet-scented blossoms in the into the required shape, either by hand or by a suit-twilight; it is full blown at midnight, and closes, able die, and then pressed into the required shape, either by hand or by a suit-twilight; it is full blown at midnight, and closes, able die, and then pressed into the required shape ellower feelbeen field and the pressed into the required shape. twinght; it is full blown at mininght, and closes, and then pressed into the required snape never to open again, with the dawn of day. In a clover field not a leaf opens till after summer. Those plants which seem to be awake all night have been called the "bats and owls of the vegetable kingdom."

The pressed into the required snape to two form a flower, having been prepared separately, are carcially soldered together, a stem and leaves added, and the whole object so bent and twisted as to avoid the amorance of stiffness. They may finally avoid the appearance of stiffness. They may finally be painted with the natural colors and varnished.

> The Weepen Portal, says The American Agriculturest, is now being written up abroad, and this will probably convince our planters, what we have for years insisted upon, that it is one of the most valu. able of lawn trees

> "A solla u kamness steals around, a dred orecums the sole, when in my pocket's depth I sound and only had a hole. O thus when life's breef span is past, and deth yanks out my sole, how dreary life will seem at last, when taken as a hole. But still this consolations left, to cheet the drooping sole, though through it I m of all bereit, I cannot lose the hole.

> Amonia for Flowers, The Fruit Recorder—good authority says, that the sulphate of ammonia is an excellent manural I uid to apply to verbenas or any other flower, giving to the foliage a dark green luxuriant and healthy appearance. It is economical, and easily applied. Prepare it the evening before using by dissolving one ounce of ammonia in two gallons of water. It may be applied once a week with safety. with safety

> DWARF FLOWERING ALMOND.—The Rural New Lorker recommends the budding of this beautiful hrub on plum stocks, for giving a handsome form hke miniature trees. A small head is first formed to the plum stock about three feet high, by cutting back at that point, giving three or four side shoots. These are budded in summer with the almond, and treated as other budded trees. It is recommended also to work the new and beautiful Prunus tribbata in the

> ORNAMENTAL HEDGE .- Mr. Edwin Marsh, nearly a mile west of Agawam Centre, Mass., has a very hand-some hedge of white pine. This tree was placed by some hedge of white pinc. This tree was placed by Downing at the head of the beautiful evergreens. Planted near it is a well trimmed Hemlock hedge, and opposite, on the grounds of Mr. Goddard, a very beautiful hedge of the American Arbor Vita. On account of its brighter and never changing green, we had, in this case, to give our preference to the white nad, in this case, to give our preference to the white pine. For dry sandy soil it is peculiarly adapted.—
> New England Homestead.

> NITROGEN AND PLANTS. - In a notice of Deherain's ork on agricultural chemistry, recently published, the important question is raised—In what form is nitrogen assimilated by plants? Kuhlmann main-tains that nitrates are not taken up until reduction has taken place, and their nitrogen has entered into an aminoniacal combination. On the other hand, Colez holds that aminoniacal salts are inactive till their nitrogen has passed into a nitro-compound. Neither of these views has as yet been demonstrated. Mr. Deherain combats the view of M. Ville that plants can assimilate directly the free nitrogen of the atmosphere; but he holds that in soils containing accomposing organic matter, the introgen of the air forms ammonia in the absence of oxygen. Carbonic acid is formed and nascent hydrogen unites with the atmospheric mtrogen to form ammonia .- Chemical News.