Scientific.

Interesting Agricultural Experiments.

more than Cincinnati. And in general, Ame-ing and stopping putrefaction. rican flour, according to the authority of one of the most extensive London bakers, absorbs

8 or 10 per cent. more of its own weight of A discovery of another property of chlorolish. four. In his opinion the loss on these was colours, even to the slightest and most delicate should be well ripened before harvesting, and so many benefits may be expected, in the pre- field of four acres I had in 1849, which produwell dried before being stored in a good gra-servation of military and naval stores, animal ced 104 bushels to the acre, but it set to ears nary. Kiln drying is preferable. The mode food in sea voyages, and its application to a of ascertaining the amount of water is this : variety of other useful purposes. Take a small sample, say 5 ounces, and weigh it carefully. Put it in a dry vessel, which should be heated by boiling water. After six Mr. Staite is lecturing in England on his new or seven hours weigh it carefully, until it loses mode of lighting by electricity. The Literary no more weight. Its loss of weight shows the and Philosophical Society of Sunderland gave original amount of water.

What is It?

says that two gentlemen of that State have in ty, was placed under an air-tight glass vase. vented a new method of rooming houses, more When the gas was turned down, it sufficiently durable than shingles, slate or tin, as brilliant lighted the spacious building, and bore the as glass, fire-proof and water-proof; red, blue. closest resemblance to the great orb of day of yellow, green, or any other color that may be any light which we ever winnessed. The elecdesired; a non-conductor of electricity, a re- tric light was next exhibited in a vessel of waflector of heat; cheaper than tin, lighter than ter with equal success. Mr. S. stated that it slate; being vitrified, it is almost indistructi- was the cheapest as well as the best for all ble by time or weather, and so easily put on practical purposes; and the marvellous inven- to the acre spread broadcast and plowed in that the largest roof can be covered in a single tion was hailed with rapturous plaudits." day, if desired. It requires very little descent ; a roof covered with this material may be made as flat as any tin roof, without the least danger

for this purpose, meat is preserved for a consi-growth, while the previous coat being well squash, pumpkin, cucumber, and sometimes derable length of time, without losing its pe- mixed with the soil, will start the crop with other vines, perhaps some of your numerous culiar taste, or becoming unwholesome; blood the greatest luxuriance in the first stages of readers would like to hear of a simple way to Some recent experiments in wheat and is prevented from putrelying, or if already in its growth. I plant from the 18th to the 20th prevent this evil. Two years ago, I planted four go to prove that both contain water, and a state of putrefaction, is rendered odorless of May, rows four feet, and hills two feet apart; a piece of ground with vines, of the kinds that the quantity is more in cold countries and fit for use for several months. The sub- at the first hoeing, which I have done with above mentioned; they came up and began to than in warm. In Alsace, from 16 to 20 per stance referred to, neither coagulates the albu- great care, the stalks are reduced to three in look quite flourishing, but suddenly the bugs cent. In England, from 14 to 17 per cent, men of the blood serum, nor decomposes the each hill; then a mixture of lime, plaster, and commenced operations upon them in good In the United States, from 12 to 14 per cent, sugar in the process of refinement, and being hard wood ashes, unleached, a gill to each hill earnest. The bugs were of two kinds; most In Africa and Sicily, from 9 to 11 per cent, easily prepared will very brobably become of of corn is immediately applied. After the se- ly very small, striped with black and yellow, This accounts for the fact that the same great importance in sea voyages, for sugar-re- cond hoeing, plaster alone is applied, a table- and a few large black ones, commonly called weight of Southern flour yields more bread finers, etc. A scientific committee in Ke- spoonful to each hill. It is hoed the third "pumpkin bugs." than the Northern. English wheat yields 13 nigsburg, having examined the virtues of this time, and each time with care and neatness. pounds more to the quarter than the Scotch. antiseptic remedy, have declared it to be su- using the cultivator, and elevating the earth soap suds, but it seemed to do very little good. Alabama flour, it is said, yields 20 per cent. perior to all other substances, for counteract- but slightly around the stalks, keeping the I then tried the effect of common-wood ashes.

Chloroform an Antiseptic.

water in being made into bread than the Eng- form has just been announced by two French deep, rich chocolate tinge to the whole. The high winds, the ashes would adhere several The warmer the country the more is gentlemen, who, simultaneously, and without cob is small, the ears are long, well filled out, days, and when it had fallen off, if the bugs the water dried out of the grain before it ri- any consultation with each other, found that and the kernels deep, close, and compact had returned, the vines were sprinkled again pens, and hence when made into bread, it ab- chloroform is an 'antiseptic' of marvellous Such is the manner of cultivation upon three in the same manner as before. This was resorbs more water again, and is therefore more virtue, preventing animal decomposition after and one half acres the past season, one acre of peated as occasion required, until the vines valuable. Professor Beck has written a re- death, or promptly checking it if already com- which yielded 92 6-7 bushels, another acre were too large to be seriously injured by their port to the Patent Office, in which he shows menced. Muscular flesh, and all animal tis- 88 4-7 bushels. These acres were taken one enemies. The bugs were completely frustrathat the presence of water unfits these articles sues, when subjected to its action, become fix- from each side of the field the longest way; ted in their designs, and the ashes did not infor preservation. The books of a single in-led for a long period of time in the precise form through the centre of the field, lengthwise, is jure the vines in the least. spector in New-York city showed that in 1847 and condition in which they may happen to a slight elevation or ridge, on which the crop I applied ashes to my vines last year in the he inspected 218,679 barrels sour and musty be at the moment of application; and natural was not quite as good. \$250,000. Every year the total loss in the shades are preserved without the slightest in the summer, and had it set as well for ears no doubt the effect will be the same. Bugs United States from moisture in wheat and change. The French Academy of Science is flour is estimated at from \$3,000,000 to \$5, about to make some further investigation, to have been over 100 bushels to the acre on the and therefore the vines, at such times, 000,000! To remedy this great evil, the grain verify this remarkable discovery, from which whole field, as it was as heavy a growth as a should be looked to the more frequently.

Light from Electricity.

The Newcastle Guardian says: "The light, 'A Mechanic,' in the Philadelphia Ledger, which was of astonishing brilliance and beau-

Scientific Cgineidence.

In 1815 Captain Smith ascertained that the of leaking. Nothing short of actual violence height of Mount Etna is 10,874 feet. The that it stood up well, and the oats, when reaputanians disappointed that their mountain had lost nearly 2000 feet, would not believe it. In 1834 Sir John Herschell, who was not aware of what Capt. Smith had done, determines the height by a careful barometrical measurement and found it 10,8721, a difference of 12 feet. Herschell called this a" happy accident," but Mr. Wallaston justly remark ed " that it was an accident which would not have happened to two fools."

rowed and Brown corn, so called, and when leaves were covered.

Had it not been for the severe drouth late menced doing the same this year, and'I have as usual, I have no doubt but there would are the most numerous in warm dry weather, much better than the field of the present sea-

son. The soil where I grow my corn, is of the alluvion bottom lands upon the Connecticut river, and no where in the known world, is there a better soil for the production of this valuable grain, but it will not grow even here spontaneously; it requires care and labor, a public soiree last November, at which this skill and judgment, and these rightly exercised mode of lighting was the principal attraction. upon such a soil, will be annually amply remunerated in full compensation. 1 present these two acres of corn for the first and second

premiums on the first and second best acres

of corn. Oats-I also present, gentlemen, two acres and 15 rods of oats, which produced within a fraction of 174 bushels, weighing 34 lbs. to the bushel. The soil is the same as my corn land, alluvion, bottom land; it was planted to corn the previous year with 50 loads manure ten inches deep ; it was plowed again ten inches deep, last spring, and sowed to oats about the 20th of April, 13 bushels of seed to the acre; harrowed thoroughly and rolled down

I showered the vines several times with surface clean from weeds and nearly level. After wetting the vines (if they were dry.) the The seed is a mixture of the yellow eight ashes were sprinkled upon them until the

the two kinds become blended, it imparts a Unless there was considerable rain, or very

same manner, with like success, and have com-Yours, &c.,

8. D. W.

Groton, June 16, 1852.

CUCUMBERS .- As soon as the temperature s sufficiently mild, says the North American Farmer, cart out a few loads of old, well-roted, chip manure, and spread it evenly on a patch of green sward-say one or two inches deep-and plant the seeds the same as in garden soil. The hills may be four feet apart, and if you have not a sufficiency of manure completely to cover the whole surface, drop. one or two bushels in a place where the hills are to be, and leave the spaces intervening uacovered. The vines will grow with surprising vigor and luxuriance, and the fruit, resting on the clean grass, is easily plucked, and never defiled by dirt. Melons and squashes are grown in this way also. As soon as the plants make their appearance, spread over them a thin cake of cotton wadding; and to prevent its being removed by the wind, confine it in its proper place by wooden pins, The lightness of the article enables the plants to grow without hindrance from its close contact, and to derive the necessary principles from the atmosphere with the same facility as though they were exposed to it without protection. We request our agricultural friends, one and all, to make trial of this method, and establish the results.

use, our cities will outshine the Kremlin of Moscow. When a house with a slate roof is on fire, the slates fly so that firemen are in great danger, should they come near it; but this article having passed through the fire in the process of manufacture, is not liable to this objection ; its durability is such that it will last as long as the house.

式山脉病行普通影

An Air Bed. Mr. A. J. Goodenough, of Yorkshire, Cattaraugus Co. N. Y., has invented a new kind of bed to supersede the use of feathers entirely, and is somewhat peculiar. He unites two boards the length of the bed by a strip of leather so as to fold on the top of one another, and unites these boards to iron legs which have hinges for the purpose of clasping the boards, and are braced together by portable slender iron rods. He uses double sheets of pins. By a tube communicating with the inside of the India rubber bag bed it can be filled with air and expanded, buoyant and soft as Russia down. The material of which the bed is composed is made strong enough to stand considerable atmospheric pressure, not even fearing the gravity of the Kentucky giant. peculiarities for the regulation of pressure on the surface. It has at least one grand advantage in economy and health, viz., no bad smel and filled with little expense.

Important Discovery.

vented by a renowned chemist of Kænigsburg, manure to the acre; this last coat will bring in Paussia. By the means which be employs the crop to maturity in the late stages of its

The Farm.

[From the Albany Cultivator.] COLTURE OF INDIAN CORN AND GATS. GENTLEMEN-There are some farmers

whose intelligence and skill in agriculture I greatly respect, who doubt that there can be one hundred bushels of Indian corn grown upon one acre of land. But my own practical experience and improvement in agriculndia rubber air tight for a bed extended and ture, have proved, not only to myself, but to grass seeding. fastened to the boards described, by loops over all who are conversant with the following manner of cultivation, that there can be such crops of corn raised.

In order to produce a great crop of corn, as well as any other large crop, deep plowing is indispensable necessary, and plow in a coat of manure at each plowing, in order to mix the manure well with the soil, observing at The bed, for which the inventor has takes each time of plowing, to go equally as deep measures to secure a patent, has some other if not deeper, than it had been plowed before. When I calculate to grow a great crop of corn, I hegin to prepare the ground the year previous. The first year I put on from 40 to from impure feathers, and it can be emptied 50 common ox cart loads of coarse or long manure to the acre, in the spring of the year and plant it with corn. The result of the first crop, with good attention, is generally A new and very efficiencious method of pre-labout 60 bushels to the acre. The next serving meat from putrefaction, has been in-spring I apply full 50 loads of same kind of

ed, stood over six feet high on an average, with long heavy heads and well filled. I will here remark that it is a mistaken notion to seed with m. re than two bushels of oats to the acre, whenever the soil is, or has been well manured the year previous; by seeding thus

seeding to grass with my oat crop, and never all events. This may be done on many pas-

These two acres and 15 rods of oats, yield at and the pastures are left clean, start equally, the rate of 83 bushels to the acre. I offer and afford a good growth of fresh afterfeed. them for the first and second best acres of We have lately met with several farmers who oats.

Now if farmers would consider and consult and they agree with us in regard to its utility. their best interests, and would cultivate their farms in someway similar to the above statements, they would not only raise their corn and other grains with half the labor, but after the land is laid down to grass, it will yield double the quantity of hay, and will hold out three times longer than land cultivated in the ordinary way.

No good farmer will half starve his borses. cattle, sheep or swine; neither should he half starve his land. If he does, in the end it will more thin half starve him. J. W. COLBURN. Spring field, Vt., Jan. 12, 1852.

HOW TO PRESERVE VINES FROM BUGS .-Mr. Editor :- As the season has arrived when bugs commence their depredations upon

Mowing PASTURES. -- We have before sposparingly, the straw has more and better oppor- ken of the necessity of keeping the grass of tunity to expand and grow larger and stronger, pastures from running up to seed and dying and the crops will be less likely to lodge; the on the ground. As grass grows with more heads will mature better, and more bushels sepidity in the early part of the season than at will be obtained to the acre. Another import- a later period, it is difficult to keep. it properly ant consideration in seeding oat land sparing- fed down, without putting on more stock than ly is, if we are desirous of seeding to grass, can be kept on the land after the flush of feed the grass seed will take root much better than is over ; and yet, if the grass goes to seed and when the oats are sown thick, and fall down in lies on the ground, the after feed will be less consequence, It is a common saying among in quantity and of poorer quality. The diffifarmers, that oats are a bad crop with which culty may be overcome by mowing the grass at to seed down to grass; I have always practiced the right time-before it has run to seed, at even in the dryest seasons have I lost a single tures to good advantage, the hay obtained being of good quality for any kind of stock;

have followed this practice for many years,

WORTH KNOWING .- It is said that a smal piece of resm dipped in the water which placed in a vessel on the stove, will add a peculiar property in the atmosphere of the room, which will give great relief to those troubled-with a cough. The heat of the water is sufficient to throw off the aroma of the resin, and gives the same relief as afforded by the combustio of the resin. It is preferable to the combustion, because the evaporation is moredurables. The same resis may be used for weeks. the second second second t

Sobriety, Temperance, and Tranquility, are ga-ture's best Physicians.