Scientific.

NEW MEDICAL AGENT .- Recent experiments have been made on the narcotic pro-

"On Saturday, the 12th inst., Mr. Cthat must be rather too large a dose.

my life passed before me tike a flash.

or mental hallucination. In truth, it is impossible for me to describe all the sensations

" My companion, Mr. C-, was not afafterwards. He first felt the most extreme terror, undefinable, and without an object, which was followed by immediate laughter.

others, with the same results."

century up to 43.7, by our last reports.

These facts are derived from the medical cum. statistics of Geneva. Applied to this country, such as improvement as is here exhibited from 1500 to 1845, would make a variation of our bills of mortality of more than half a million, or 1500 deaths daily.

fore the public a substantial and well organ-tain. ized company for furthering the application of gas to all purposes now answered by coal fires.

novel use of gas, had already led to many, and a soil lightly manured, from hills four feet a-

perties of Indian - canabrio indica, and ELECTRIC SPARK -On Friday a curious ex-dry. But quite a different culture and manur-nor take so much pains as they should to cult has been found to develope nervous sensiperiment demonstrating the protective quality ing is required to grow twice the number of tivate it. In fact but very few sow it, when bility in an extraordinary degree, creating of gutta percha against the escape of the elechills, three stalks in a hill, and twin ears on they lay down their lands to grass. They sensations altogether novel, and exciting the tric fluid, was tried on the premises of the most of them. The same will apply to rais-trust to nature to supply them with it. mental faculties in a very peculiar manner. Gutta Percha Company. A series of copper ing wheat pods board at Mr. Laplace, a druggist of New Orleans, thus wires, coated with gutta percha, each wire Waiving remarks on the laws of nature, tain it a long time, for the low short stems will descr b s an experiment made upon himself: 1,000 feet long, and in the aggregate amount-requiring a deeply and finely pulverised soil bear heads full of seeds, and these become ing to 275 miles was immersed in the water for another article, we will in this, consider scattered out into the soil, and thus the seed and myself determined to make a scientific ex- of the Regent's Canal-all except the parts manures as furnishing the food for plants, is kept in the ground and springs up whereperiment with this hatchish, as the Arabs where each wire joined its fellow. The junc- From repeated experiments it is ascertained ever circumstances are favorable for its develterm it, with a view to ascertain how much of ture was effected by mere twisted contact, a that the stale of animals contains a great a opement. A moderately clayey loam is conit could be taken with impunity, and what were condition very unfavorable to the ready trans- mount of nutriment, or food for plants; that genial for it, and if this be dressed with an its immediate results. We each took six mission of the fluid-and the voltaic battery em- similar effects are produced by applying the occasional dressing of plaster it will bring it grains of the preparation, though we thought ployed in passing the discharge was on the old droppings of poultry (guano) animal manure, out abundantly. It affords an excellent pasconstruction of Dr. Wolfaston, consisting of (blood and offal of slaughter-yards,) &c., &c. ture for bees, the best honey in the world be-"Being of a sanguine temperament, I was 384 pairs of 4 inch square-plates of copper and Much of the value of these is liable to be the first to feel the effects of the Hatchish zinc-put in action by dilute sulphuric acid. lost by putrefaction and evaporation. By che-There was great weight about the head; then On completing the voltage circuit, the explo-mistry we ascertain what this is, and how to followed irresistible bursts of laughter, during sion was instantaneous, -notwithstanding the retain it. It is well known that in clearing which, however, I was perfectly conscious of wires had been immersed in water ever since horse stables, expecially under the floor, there all that I was doing, or felt and thought. I was the 18th of January. By employing a strong is a very pungent smell. The same is true in that cows that graze upon this species of astonished by the crowd of brilliant and novel er buttery, it is difficult to say what would be opening a heap of stable manure, that has been clover yield milk that contains casein, or ideas ast nished by the crowd of brilliant and the limit of the electrical ignition. The usual thrown up and heated. This smell is product cheesey particles, in greater abundance than novel ideas and fancies that rushed through my plan of inflaming gunpowder, by means of ed by the escape of ammonia, which is the they do when fed on the common grasses. brain returning over and over again. Linagit voltaic electricity, consists in making the essence and value of the manure. The loss We throw these hints out for our readers to nation and perception were developed to their fluid traverse a slender platinum wire, which is greater from privies, because their contents greatest extent. All the principal incidents of thereby is rendered incorrodescent—a plan are still richer, and more highly charged with which certainly would not have been effective fertilizing gases. How to retain, and to fix This condition of mind lasted two hours, at so long a distance as 275 miles with the them in a state in which they will remain till Dreams and reveries of the most pleasing mas battery employed. Propably it would have used by the growing plants, is a question of stores. ture followed this extraordinary tension of the been impossible with any battery. The plan high importance, which a scientific knowledge intellectual faculties. Then came a deep, actually followed was discovered by Mr. Sta- of these elements alone can answer. An calm sleep, which terminated this singular fit tham, the chemist, at the gutta percha works, English writer says, "Before you begin to and consists in passing the voltaic discharge clean your stable, dissolve two pounds of comthrough a small layer of the salt (probably mon salt in a bucket of water, and pour through which I experienced during the experiment: sulphuret of copper) which forms when copper the nose of a waterpot, over the stable floor, an They were, however, of the most delicious nat is brought into contact with sulphurised gutta hour before you begin to move the manure. percha.

fected by the dose he took unit! three hours development of the electric telegraph system atic acid of the salt; and the soda thus libeis at once useful and beautiful. It is a plan rated from the salt will quickly absorb carbon for distributing and cerrecting mean Green-lic acid, forming carbonate of soda. Thus, wich time in London and over the country every you will retain with your manure the ammo-"Since the first experiment we have made day at noon. Every holiday maker knows nia, which would otherwise have flown away the ball which surmounts the Royal Obser-land you will have a new and important agent vatory, and has watched with interest its des-thus introduced, carbonate of soda." This INCREASED AVERAGE DURATION OF LIFE, cent as the clock gave the first stroke of noon, powerful solvent will be a valuable agent in -Professor Buchanan, in an interesting lec- thereby telling the sea going men in the river preparing the manure for the reception of ture befor the Mechanics' Institute of Cincin- the exact state of the chronometers which plants, after it is applied to the soil. Night nati, makes the following observation upon were to become their guides over the pathless soil is rendered inodorous, by mixing it with the average duration of life, the effect in part waters. Such a ball is to be raised on a pole chargoal dust, (carbon.) Dry pulverized of the improvements in medical science. He on the telegraph-office near Charing-cross, clay, and plaster of Paris, and ten times its says that in the letter part of the sixteenth and at noon each day is to drop by electric weight of peat muck or turf may be added, or century, one half of all that were born, died action simultaneously with that at Greenwich any other carbonaceous matter, with good under five years of age, and the average longe- -both balls in fact liberated by the same effect. In heaping up manure, a portion of vity of the whole population was about 18 hand—and, falling on a cushion at the base of these mixed with it will, in a great measure, years. In the 17th century, one half of the the pole, is to communicate standard time prevent the escape of ammonia, by their chepopulation died under twelve. But in the along all the telegraphic wires of the country. mical action, as above described. I have long first sixty years of the 18th century, one half At the same instant, the bells will ring out practised sprinkling pulverized charcoal or of the population lived over 27 years. In the noon at the most distant places-Hull, Holy-plaster daily in my stables, and also in heaplatter forty years, one half exceeded 32 years head, Aberdeen, Harwich and Devonport. ing up my manure with a free use of salt of age. At the beginning of the present cen. The great metropolitan clocks, such as the The result has been most satisfactory. This lury, one half exceeded 40 years, and from Horse Guards, the Exchange, the New Palace, gives it double the value when kept under 1838 to 1845,, one half exceeded 43. The are to be regulated on the same principal. It shelter. When mixed with alternate layers average longevity at these successive periods is said that all the railway companies have a of meadow mud, triple the quantity may be has been increased from 18 years in the 16th greed to avail themselves of the means of ob- obtained .- Watchman and Reflector. taining an exact uniformity of time. - Athen-

The Farm.

beened e Agriculture in Europe. . .

Crowded as England is with a hungry pop ulation, forty-five per cent. of her soil is not THE NEW APPLICATION OF GAS .- On under cultivation. Yet the proportion of cul-Tuesday evening, Mr. Defries gave his an-tivated to uncultivated land, is higher in Engnual dinner at the Freemasons' Tavern, Great land than in any other country in Europe. In Queen-street. Lincoln's Inn-fields, to rather Russia, less than one-fifth of the soil is under more than 100 members of the gas-fitting cultivation; in Sweden, only one-seventh; in trade. Together with two gas fires-one ig- Austria and Holland, one-fifth; in Swinzernited by common coal gas, and the other, land, one-fourth; in France, fifty-four hunthe most brilliant of the two, by hydrogen—dredths. There is really no need of emigration, were exhibited last evening, models of sever- in England, as appears by a parliamentary real stoves, and of a bath; by which, as the port, there are sixteen millions of acres, wholly company were informed by Dr. Bachhoffner unproductive, that might easily be made prowhile that gentleman was proposing the health ductive. The reason why these acres are perof the chairman, any one could be supplied mitted to lie unimproved is, that as soon as in six minutes with 45 gallons of water heat-they are enclosed, and before they can be suf-ed to 95 or even 110 degrees entirely by gas ficiently reclaimed to produce a paying crop, and at a cost of three-half-pence. Dr. Bach-they become subject to tithe and tax. Hence hoffner further stated, that Dr. Defries and only men of large capital dare to undertake bimself—for they were now in partnership—the task, and they prefer to invest their capital worth growing at all is worth good cultivation, would in a few weeks be enabled to bring be-where the return is more speedy and more cer-

On Manure Furnishing Food for Plants.

We have said that plants contain four or Mr. Defries stated that he had just completed ganic and ten inorganic constituents, and the fitting up of the kitchens, &c., of the that the laws of nature demand that, from the Mouses of Parliament, where in future cook-soil and atmosphere, each one of these should ing, washing, drying, and all similar processes, be available, in order to secure perfect crops, would be carried on through the sole agency and a full supply of each, to secure abundant of gas. This adoption by Parliament of thelcrops. Perfect ears of corn can be raised on

would necessarily lead to many more orders, part, and one stalk in a hell, one gar to a stalk,

and the volatile salts of ammonia will become THE EXACT TIME OF DAY .- The latest fixed salts, from having united with the muri-

Rhubarb.

Garden Rhubarb is as valuable as an early with rich soil and manure, Let the latter be months, when the gad-fly is troubling the flock. used plentifully, for rhubarb is a great consuthree inches below the surface.

duce well for years with proper care and ma- health of my flock to the use of tar. nuring. Besides, my maxim is, What is such as will bring the vegetable cultivated to WRIGHT. - Ohio Cultivator. something like perfection. And I have never seen this maxim more favorably illustrated than in the case of rhubarb when treated in Pathology will be found the following account the manner above described. It then has a of the number of pulsations in a minute in difrapid grawth, and produces stalks of unusual ferent animals. The horse from 32 to 38; the size and tenderdness. To protect and enrich ox or the cow from 35 to 42; the ass from 48 the plants a good covering of manure should be to 54; sheep from 70 to 79; dogs from 90 to applied in the fall and mixed with the soil in 100; cats from 110 to 120; rabbits about 120; the spring. The [Farmer's Monthly Visitor. ducks 136; and hens 140,

to roceire on accuration against him, un-

White Clover.

We are satisfied that our farmers do not even if the ground is ploughed only six inches appreciate the white clover or white honey-INFLUENCE OF GUTTA PERCHA ON THE deep, provided the soil is not too wet or too suckle, as some call it, so highly as they ought,

> When once seeded with it, the soil will reing obtained by these little insects from white

> It also affords the best pasturage for cattle, especially cows from whose milk cheese is manufactured, as experiments have proved think of. Four or five pounds, mingled with a due quantity of other grass seeds will be sufficient for an acre, and it can be obtained at reasonable prices at the agricultural seed

Mode of Preserving Shingles on Roofs.

A gentleman in Groton gave us the other day the manner in which he prepared his shingles, before layingt them on his house, some six years ago; and on examination, we found they had a perfectly sound and fresh appearance, as though they had been laid not more

He had a large boiler, which he filled with whitewash, mixing with it, about one pound of potash to four gallons of liquid, also about the same amount of salt. This composition he boiled, and while it was boiling, he dipped he shingles in, taking a handful at a time and holding them by the tips. He had boards placed so that he could set his shingles on them on end, and let the liquid, as it ran off them, run back again into the boiler. The shingles he allowed to dry in this position, before laying them, and his belief was, that by thus curing or hardening them, they would last much longer. They could be colored red or yellow, easily, by mixing red or yellow ochre with the composition. Tally would be eaching by

The expense of shingles on a roof, is very considerable, as the most of those which we buy now, unless we go to a very high price in purchasing, last but for a few years, and there ore something that will harden and preserve them like the above, and which costs but little in the application, will be thankfully received by owners of buildings .- Spindle City should exclien harate and and theb or

To a do it; and, as the have now been ac a

USE OF TAR FOR SHEEP .- Having had some experience in the management of sheep, I propose to say a few words on the use of tar for sheep, as a preventive of disease. I have been vegetable. For sauce and pastry, it is a good in the practice of feeding to my sheep four or substitute for apples and other fruits, it being five gallons of tar to one hundred sheep per ready for use at a time when these fruits can- year. My plan of feeding is to mix it with salt, not easily be obtained. Its goodness, however, by scattering salt in a long narrow trough, and depends much on its being so cultivated as to pouring the tar upon the salt. In this way I secure a large and rapid growth. For this pur- have no difficulty in getting the sheep to eat it. pose select a location to which the sun has a In addition to this, every time I handle my sheep free access. Then from a space of sufficient except when washing them, I apply a little tar length and width remove the earth to the to the nose of each; this external application I depth of two and a half feet, and fill the treach deem more important in the summer and fall

This is the only article that I have used to mer, and there is no danger of enriching it too prevent disease in sheep for a number of years much. The ground being thus prepared, the which I have been engaged in wool growing; plants may be inserted with their tops two or the result has been that I have not lost one per cent. of my sheep, by diseases of all kinds annu-This mode of planting involves some labor ally. When I sheared my sheep last May, I at first, but the process need not be be often had over six hundred, and I am not aware of lorepeated, for the same plants, thus set, will pro- sing but one since. I ascribe the uniform

> I make these statements that others may have the benefit of my experience. WM. S.

PULSE OF ANIMALS.-In Vatel's Veterinary,