

Agricultural.

Lightning Rods.

The electric fluid, whose passage through the air is commonly called a flash of lightning, has a stronger affinity for some substances than for others. This is easily shown with a common electrical machine: for having obtained a sufficient charge for our purpose, on presenting a rod of copper in one hand and rod of glass in the other, at equal distances, the discharge will be found to take place on the copper and not on the glass one—hence we have what are called, *conductors* and *non-conductors*. Electricity passes with greater or less facility, according as the object with which it is brought in contact, possesses affinity for the fluid—or according to its conducting power. Hence those things which stand low in the scale, or non-conductors, afford almost impassable barriers to electricity, and are commonly shattered to pieces in its passage.

To apply these facts to the subject of protecting buildings by lightning rods, suppose a discharge about to take place in close proximity to a house on which is affixed a lightning rod; by reason of the attraction of the rod, fluid is turned out of its course to the building, (which is a non-conductor) and passes down the metal into the ground—leaving behind none of those fearful appearances which would otherwise have marked its passage. Here, then we see that the greater the difference between the conducting power of the building and the material of which the rod is composed, the greater will be the protection secured.

Iron and copper are the metals which are found to answer the purpose best; and although copper is the most powerful conductor, yet by reason of its high price, compared with iron, the latter is commonly used.

The next thing to be considered is the dimensions of the rod. And first, as to length or height; suppose a rod twenty feet high, to be placed exactly perpendicular to the ground; then with a radius of forty feet, describe a circle whose centre shall be the spot penetrated by the rod. The diameter of this circle will be eighty feet.

Now each and every object within this circle, which does not project out of an imaginary line drawn from the top of the rod to the circumference of the circle, will be found to be fully and amply protected. The law may be said to be, that a lightning rod will protect everything placed within the circumference of a circle describing it, with a radius twice the perpendicular height of the rod. Therefore, in putting up a lightning rod, the perpendicular height of the rod, from the point where it ascends from the ridge, must be 1-4th the length of the ridge, that is, if it ascends from the ridge at the centre between the two ends. If the rod ascends from one end of the ridge, its height must be one-half the length of the ridge—unless another rod is provided for the other end, in which case each must project one-fourth the length of the ridge.

From this it will be seen that the great point in relation to the length of the rod, is not absolute length from one end to the other, but only the length measured from the tip to where it leaves the ridge of the building. The height of the building makes no difference—the extreme horizontal length of the ridge only, being taken into account.

The diameter, or thickness of the rod should be—if iron, three-fourths of an inch thick—copper, half an inch. The reason that rods of this thickness are required, is, that they may not be melted by the most powerful discharges that occur. The end of the rod that is project above the building, generally terminates in a fork of three prongs. Of this there is no necessity if one is well made. The only reason for having three points is, if one gets rusty there is still another remaining bright. Now if one is constructed so that it will not get rusty, it is all that is required. The rod should be brought to a point and perfectly capped with some metal not liable to oxidation. Platina, gold, and silver, are used—the two first are preferable to the last. The cap should be from an inch and a half to two inches in length and of thickness of a sixpence.

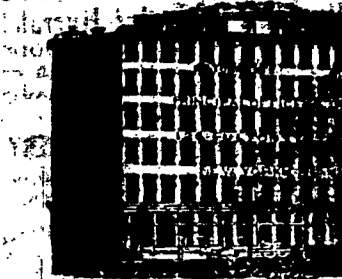
The means of attaching the rod to the building are various. The most effective and at the same time the most simple is glass. The objects to be permanently attached to the building with a non-conducting material. The mode of attachment is as follows: In all cities you may find what are *'glass spoils'*; through the hole in the centre the rod passes. On the groove, on the outside, (where in a spoon the cotton is wound), is to be fitted a bolt, which may be readily driven into the building.

The different length of rod should be rivetted together—being first fitted by shoulders. The bottom of the rod should terminate in two or three branches going off in a direction from the building four or five feet under ground. The depth may vary according to the nature of the soil—wet soils requiring less and dry ones a greater depth. JOHN J. HIGGINS.

HEAVES IN HORSES.—I have been acquainted with this disease particularly for many years. I think it can never be cured, nor much alleviated by medicine. I am assured, on what I consider good authority, that removal to western Ohio is a certain remedy. I once drove a heavy horse twenty years old through a journey going and coming of eleven hundred miles, in the months of May, June, August and September. The whole was accomplished with fair speed, and a good degree of comfort to man and beast, by the observance of one short and simple rule. Avoid dust. The manger and rack were usually dusted, the hay shook and sometimes watered, and the oats wet before the horse was allowed to approach them. "A good deal of trouble," says one. "Yes," I answer, "and a good deal of comfort, too, both to horse and traveller." The worst predicament was in travelling a dusty road with a light breeze blowing in the direction of the journey. Then the poor creature suffered of course. C. B. G.

DOMESTIC ECONOMY, RECEIPTS, &c.—To make good yeast in summer, is a desirable object with every housewife. She may have such by the following simple process: Boil a single handful of hops (which every farmer ought to raise, to the extent of household wants), in two or three quarts of water—strain and thicken the liquor, when hot with dry flour; then add two or three small yeast or turnpike cakes, to set the mass. If this is done at evening, it will be fit for use early next morning. Reserve a pint of this yeast, which thicken with Indian meal, make into small cakes, the size of crackers, and dry them in the shade, for future use. In this way the yeast is always fresh and active. Yeast cakes kept a long time are apt to become rancid, and lose their virtues. The fresher the cakes the better the yeast.

Medical Advertisements.



DR. TOWNSEND'S SARSAPARILLA.

WONDER AND BLESSING OF THE AGE!
MOST EXTRAORDINARY MEDICINE in the world! This Extract is put up in Quarts, Bottles, for use in any case, pleurisy, and violent purging, sickening or debilitating the patient. The great beauty and superiority of this Sarsaparilla over all other medicines, is that while it eradicates the disease, it invigorates the system. It is one of the very best SPRING AND SUMMER MEDICINES. Ever known as an only purifier of the whole system, and strengthens the person, but it creates new pure and bright blood, a power possessed by no other medicine. And in this lies the grand secret of its wonderful success. It has performed within the last five years more than 100,000 cures of severe cases of disease; and 15,000 were considered incurable. It has cured the lives of more than 5,000 children during the two past seasons.

CONSUMPTION CURED.
Cleanse and Strengthen. Consumption can be cured. Bronchitis, Consumption, Liver Complaint, Cough, Catarrh, Coughs, Asthma, Spitting of Blood, Spasms, and Profuse Hemorrhage, Pain in the side, &c., have been and can be cured.

SPITTING BLOOD.
Dr. Townsend—I verily believe your Sarsaparilla has been the means through Providence, of saving my life. I have for several years had a bad Cough. It became worse and worse. At last I raved large quantities of blood, had night sweats, and was greatly debilitated and reduced, and did not expect to live. I have only used your Sarsaparilla a short time, and there has been a wonderful change brought in me. I am now able to walk all over the city, raise no blood, and my cough has left me. You can well imagine that I am most thankful for these results.

RHEUMATISM.
This is only one of more than four thousand cases of Rheumatism that Dr. Townsend's Sarsaparilla has cured. The most severe and chronic cases are weekly eradicated by its extraordinary virtues.

CANKER IN THE MOUTH.
Below is an account of another child saved. Dr. Townsend's Sarsaparilla has saved the lives of thousands of children, in the following two certificates selected from a great number received this week.

ELIZABETH FOWLER, 27 Dearborn-st. FITS! FITS! FITS!
Dr. Townsend, not having tested his Sarsaparilla in cases of Fits, of course never recommended it, and was surprised to receive the following from an intelligent and respectable Partner in Westchester County.

FEMALE MEDICINE.
Dr. Townsend's Sarsaparilla is a sovereign and speedy cure for Incontinent Consumption, Barrenness, Premature Menstruation, Whites, obstructed difficult Menstruation, Incontinence of Urine, or involuntary discharge thereof, and for the general prostration of the system—no matter whether the result of inherent cause, produced by irregularities in diet or exercise. No female is more surprised than its invigorating effects on the human frame. Persons all weakness and lassitude, from taking it, at once become robust and full of energy under its influence. It immediately contracts the nervousness of the female frame, which is the great cause of Barrenness. It will not be expected of us, in cases of Fits, delicate or delicate, to exhibit certificates of cures performed; but we can assure the afflicted, that hundreds of cases have been reported to us. Thousands of cases where families have been without children, after using a few bottles of this invaluable medicine, have been blessed with fine, healthy offspring.

TO MOTHERS AND MARRIED LADIES.
This Extract of Sarsaparilla has been expressly prepared in reference to the female sex. No female who has reason to suppose she is approaching that critical period, "The turn of life," should neglect to take it, as it is a certain preventive for any of the numerous and horrible diseases to which females are subject this time of life. This period may be delayed for several years by using this medicine. Not in a few valuable for those who are approaching womanhood, as it is calculated to assist nature, by quickening the blood and invigorating the system. Indeed, this medicine is invaluable for all the delicate diseases to which women are subject.

OPINION OF PHYSICIANS.
Dr. Townsend is almost daily receiving orders from Physicians in different parts of the Union. This is to certify, that we the undersigned, Physicians of the City of Albany, have in numerous cases prescribed Dr. Townsend's Sarsaparilla, and believe it to be one of the most valuable preparations in the market.

CAUTION.
Owing to the great success and immense sale of Dr. Townsend's Sarsaparilla a number of men who were formerly our Agents, have commenced making Sarsaparilla Extracts, Bitters, Extracts of Yellow Dock, &c. They generally put it up in the same shaped bottles, and some of them have stolen and copied our advertisements, and are only worthless imitations, and should be avoided.

Principal Office, 126 Fulton Street, San Building, N. Y. J. KINGSBURY, JR., Towanda, Pa., only agent for Bradford County.

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THE GREAT BRITISH REMEDY.
It has been long known, the cough of Consumption has in its season of death. **DR. UPHAM'S VEGETABLE ELECTROLYTIC** is a certain cure for this disease. It is a certain cure for this disease. It is a certain cure for this disease.

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An INTERNAL REMEDY, which, if used according to directions, cures for life in the most rapid manner. It is a certain cure for this disease. It is a certain cure for this disease.

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PHILADELPHIA MEDICAL HOUSE—Established 15 years ago, by DR. KINKLIN. The oldest, surest, and best method to cure all chronic diseases, diseases of the skin and solitary habits of youth, is DR. KINKLIN'S W. W