

THE DAILY FREE PRESS.

Published Every Afternoon (except Sunday) at Kinston, North Carolina.

THE FREE PRESS CO., Publishers.

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Entered at the Postoffice as second class matter

ROBERT EDWARD LEE.

Yesterday was the anniversary of the birth of Gen. Robert E. Lee.

To the men and women of a generation ago, men and women who lived and struggled with him throughout the most tremendous struggle that history records, it would be a superfluous task to call attention to the nobility of character of that peerless leader. But those men and women are passing away all too rapidly, and a new generation is taking their places.

In the culture of this new generation the study of no historic character will prove more fruitful of lofty conceptions of manhood, of inspiring devotion to duty, of visions of an immaculately pure life, than will the study of the character of Robert E. Lee. It is well that our State has made his birthday a holiday, and every school within its borders should on that day endeavor to implant in the minds of the young some lessons from that beautiful life.

We print below an extract from Captain C. B. Denson's last public speech delivered before the Daughters of the Confederacy, of Raleigh. His subject was the "Life and Character and military career of Robert E. Lee."

In speaking of Lee as a son, Captain Denson said:

"Fatherless at eleven years, one of his elder brothers, Charles, a student in Harvard, and another, Sydney, an officer in the navy, with his sisters younger than himself, and his mother a helpless invalid, the boy rose to the occasion, and became in his extreme youth, the head of the household. As Mary Ball had moulded the character and inspired the life of her son, George Washington, so Anne Carter lived again in Robert Lee.

His devotion to the exquisite woman who was his mother was perfect. He was housekeeper and carried the keys; he managed the business of the establishment—he saw daily that the horses were cared for—after school it was his happiness to fly to his mother, for her evening drive. His strength was always wonderful, enduring in the hardest of campaigns—as a boy he was known to keep up with the hounds all day on foot, at the hunt. So he was accustomed to carry the fragile form of his mother in his arms to the carriage, and arrange her cushion, and hang over her, anticipating every want, until she cried when the hour of his departure for West Point came, "What shall I do when Robert is gone? He is both son and daughter to me."

What more beautiful conception of the true relationship that should exist between son and mother can be shown than is here shown? What nobler example of manly boyhood can be suggested than is here suggested?

Surely no boy could find a more magnificent type of manhood for imitation.

TRIALS OF THE POLICE FORCE.

Perhaps no body of men are confronted with greater responsibility than are the members of the police force. This is so especially in our large cities where they have almost every form of vice and crime to contend with.

In New York city the police force has been subjected to severe criticism recently. The rank and file of the force are splendid fellows, but at "the top" rottenness has been found.

In this connection it is interesting to note the Hartford Post's mention of Captain Miles O'Reilly and his work. He is one of the captains there who believes in enforcing the law to the letter, who does not allow his hands to become soiled with "graft" taken from protected vice, and who has thus become an ornament to the force.

The Post says:

Captain Miles O'Reilly has begun to do things in (and to) the Tenderloin. He did wonders over in Brooklyn and was transferred to the Oak street station in Manhattan, where he applied the deodorizing process with fine effect. Sent up to the Tenderloin precinct by Commissioner Greene, Captain O'Reilly is now up against the toughest proposition of his career. In the Tenderloin gilded vice of all forms and descriptions has stalked abroad. Heretofore it has been hit, but not badly hurt.

Will the redoubtable Miles O'Reilly succeed in cleaning up the district? He has ambition, persistency, fearlessness and three-ply integrity, and he also has a record to maintain. He started last night and raided a lot of joints. Between him and the concentrated and allied vice of the Tenderloin a pitched battle has begun. It will be a great contest. If O'Reilly wins and succeeds in putting the Tenderloin on a moral basis he will be doing something that none of his predecessors has ever been able to achieve. Nevertheless, if we were victims of the betting habit we should be inclined to wager a red apple or two on O'Reilly.

Croup.

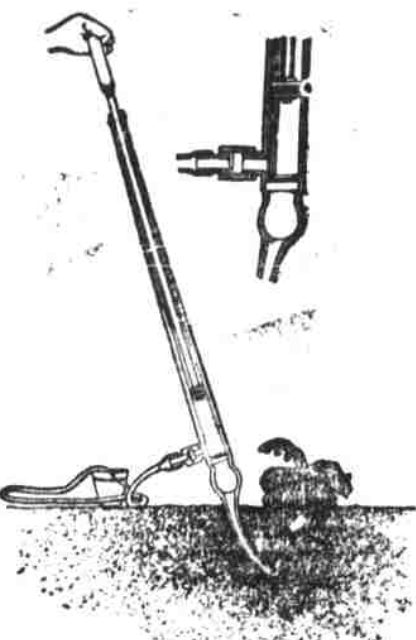
The peculiar coughs which indicate croup, is usually well known to the mother of croupy children. No time should be lost in the treatment of it, and for this purpose no medicine has received more universal approval than Chamberlain's Cough Remedy. Do not waste valuable time in experimenting with untried remedies, no matter how highly they may be recommended, but give this medicine directed and all symptoms of croup will quickly disappear. For sale by J. E. Hood Drug-gist.

PORTABLE IRRIGATOR.

Invention That Should Prove a Blessing to All Gardeners.

Among recent inventions in gardeners' implements is one worthy of special notice, says a writer in the Scientific American. The implement is a portable irrigator especially adapted for treating the roots of a plant with fertilizing liquid.

The general shape of the irrigator is similar to that of a pitchfork, the tines and handle of which are hollow. A piston is adapted to be operated with



THE IRRIGATOR IN USE.

the hollow handle, serving as a pump to draw the fertilizing liquid from a supply pipe entering at the top of the fork head and to force it out through the openings in the tines.

In operation the tines are buried into the ground, with their lower ends in proximity to the roots to be treated. The liquid can then be forced out in a fine spray at the point where it will do the most good.

Antiquity of Appendicitis.

M. Lannelongue, a Frenchman, claims to have discovered that cases of appendicitis existed in Egypt under the pharaohs. The Revue Scientifique says of the disease: "It has long been confused with peritonitis, typhilitis, intestinal catarrh and with diseases of the liver, kidneys and ovaries. At the Trousseau hospital from 1885 to 1889 there were noted 470 cases of peritonitis. From 1895 to 1899, in the same hospital, after appendicitis had become recognized, there were 443 cases of it—about the same number. Appendicitis is thus not any more frequent than in the days when it constituted a good part of the acute cases of peritonitis of unknown cause."



An ingenious instrument has been devised by Professor William Hallock of Columbia university for use at the botanical gardens in Bronx park. The apparatus was suggested by Dr. D. T. Macdougall of the latter institution and is designed to secure a record of temperatures in the soil. For this purpose an adaptation of the famous Richard recording mechanism has been effected, says a writer in the New York Tribune.

Around a small brass cylinder, rotated by clockwork on a vertical axis, is wrapped a sheet of paper. The latter is first prepared by elaborate ruling. Horizontal lines on it represent degrees, while perpendicular divisions indicate days and hours. Against this paper rests a pen, which rises and falls with changes of temperature, but never moves sideways. The movement of the cylinder at the rate of one whole rotation a week causes the pen to leave a wavy trace on the paper. As in the Richard instruments, the Hallock "thermograph" carries the pen on the end of a short, exceedingly light lever pivoted so as to yield to the slightest impulse up or down. The method of communicating this impulse to the lever from the soil is original. The Richard thermometers record the temperature of the air above ground and immediately surrounding the apparatus. Professor Hallock has found a way to keep the instrument in the same general position, but to actuate it from below the surface of the earth.

Close to the lever which carries the pen and connected with it in such a way as to make it rise and fall in sympathy is an electric metallic reservoir shaped like one tiny saucer inverted over another that is upright. The injection of a minute quantity of fluid from below into this reservoir will lift its top perceptibly and move the pen. From the middle of the reservoir there extends downward a tube, which terminates in a bulb containing kerosene. The tube is long enough to allow the bulb to be buried in the ground. Variations in temperature cause a contraction or an expansion of the fluid exactly as in a mercurial thermometer. As the tube and reservoir are also filled with kerosene, changes in the volume of the bulb create pressure or suction in the reservoir, whose top is thus caused to move up and down.

The bulb of the thermograph had at last accounts been tried at a depth of one foot. Two kinds of temperature fluctuation were observed. One, the regular diurnal rise and fall, showed a minimum between 8 a. m. and noon and a maximum between 8 p. m. and midnight. The other oscillation faintly indicated the passage of ordinary warm and cold waves. It is too soon, says Dr. Macdougall, to tell much about the influence of the temperature observations made in the soil upon plants, but several interesting lines of inquiry are opened up.

HATHAMITE.

Wonders of the Latest and Most Powerful Explosive.

The most powerful explosive known is hathamite, a recently discovered substance which showed remarkable qualities under recent tests. It is having the maximum of explosive power, this strange material, which is the discovery of G. M. Hathaway of W. H.boro, Pa., is the most difficult to explode, says the New York World.

To test it on this point the following, seemingly dangerous experiments were tried without effect: Lighted matches were thrown into it. It was pounded to powder on a sledge. Shells were exploded near it. Rifle balls were fired into it. Light percussion caps were discharged in it.

To explode the material a heavy percussion cap must be used, but then it detonates with terrific force. Some of the tests of its explosive force were: A small charge of the mixture was exploded upon a sheet of quarter inch boiler plate. It cut a hole in the steel as cleanly as a machine could do it.

A small charge was exploded between two cakes of ice, each weighing over 150 pounds. All that remained was a small pile of actual snow—not finely crushed ice.

In a second test on quarter inch steel in the open air the plate was placed on a collar of steel. The steel was cut clean over the collar. The collar, of the toughest steel and three inches deep, was broken into several pieces.

About an ounce of hathamite was exploded in a regulation United States government one pound steel shell, and very thorough fragmentation of the shell occurred.

NOVELTY IN WINDMILLS.

Portable One Invented For Use on the Prairies.

Instead of using animal power in driving the various machines which are used on a farm a western inventor, Mr. Amos Wallace, has conceived the idea of making the wind do his farm work for him. Stationary windmills are common enough, but a portable windmill is surely a novelty that merits more than passing notice, and a portable windmill it is that Mr. Wallace uses, says the Scientific American.

The contrivance is mounted on a four wheeled wagon which can be readily hauled to and from the field. On this wagon a stout framework is erected at each end. The upright frameworks are provided with bearings to receive the shafts of wind wheels. It will be observed that the frameworks are stiffened and securely supported by a system of braces.

Each wind wheel shaft carries a sprocket, connected by a chain with a small sprocket, journaled in a standard, which is carried in the center of the wagon. The central sprocket shaft is fitted with a pulley which receives a driving belt. Obviously the belt can be slipped over the pulley of any farm machine which is intended to be driven.

Curious Propeller.

A steamship has recently been built by an English firm drawing only eleven inches of water, yet having a propeller two feet six inches in diameter, which revolves entirely under water when the vessel is in motion. The screw is placed in a humpbacked tunnel (that is, higher in the middle than at either end) in the after part of the hull, both ends being below the surface of the water. When the vessel is at rest, the screw lies in the tunnel, only the lower eleven inches of it being in the water. When it begins to revolve, however, water is drawn in through the forward end of the tunnel, forces the air out and completely fills it and is in turn forced out through the rear end of the tunnel, which is below the water surface. In this way a large screw is supplied with the necessary water to work in, and a light draft is made possible at the same time.

Unbreakable Glass.

Glass that you cannot break, it is claimed by a European inventor, may be molded into any desirable form. Lime and lead, that enter into the manufacture of glass now in use, do not enter into the composition, according to the inventor, but he refuses any other information about it. With a gimlet of this glass a hole can be bored in a tough board, or a hole can be bored in a pane of glass and then patched with the new glass. Any kitchen utensil can be made of the material, and it does not crack with any amount of heat used in the ordinary processes of domestic life.



A civil and mining engineer of Strassburg, Germany, has recently planned a new system of waterworks for Apie which calls for little expense to operate it after once installed.

A company has been capitalized at \$40,000. The water is to be pumped from a subterranean spring by means of water power obtained from the Valsigano cover, a turbine or overshot wheel being used for the purpose. In the event of a shortage of the supply of river water a traction steam engine will be utilized.

This engine will be provided with a stone crusher, water car and all appliances for macadamizing roads, making concrete, etc., and it is the intention of the company to rent it to the government when not wanted for pumping purposes. Thus the plant will not only run itself when once installed, but the emergency engine will produce further income in improving the roads of the island.

PUNY CHILDREN

TOO MANY OF THEM DIE.

Their Little Bodies Unable to Stand the Ordeal of Development.

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If so, you may make up your mind they are growing too fast. They need something to help nature in her great work of furnishing the necessary elements for creating flesh and muscle tissue, bone structure and rich, pure, red blood.

They need a tonic in the full sense of the word and we can tell you what to get.

It is Vinol Wine of Cod-Liver Oil, the great modern reconstructer. Children like it, it is so delicious to the taste, in spite of the fact that it contains a highly concentrated extract of the medicinal principles that are found in cod-liver oil.

But because the vile-smelling and tasting grease has been discarded and all of the other disagreeable features eliminated, the benefits of Vinol are easily understood.

Vinol acts favorably on the stomach, creates an appetite and enables the food that is eaten to do the greatest possible amount of good.

Following is a letter that bears directly on this subject:

"I was all run down and took Vinol. It did me so much good and it was so pleasant to take that I gave it to my children. They were growing fast and needed something in the way of a tonic and I found it to be just the thing for them."—SARAH PICKERING, 1932 Fall River, Mass.

We cordially invite mothers interested in the welfare of their children, as well as any one else needing a sure, safe and delicious tonic, re-builder and rejuvenator, to call on us. We will gladly tell any one all we know about Vinol and why we so highly endorse it.

Inasmuch as we are always ready and pleased to refund the cost of Vinol to those who don't find it exactly what we claim it to be, it will be seen that we are prepared to substantially endorse our claims for the excellence of this marvelous preparation.

J. E. HOOD, Druggist

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We will save you money.

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An excellent remedy for Chapped Hands, Face, Lips, Roughness of the Skin, Etc. For sale only by

Herry Dunn, REGISTERED PHARMACIST

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Wood's New Seed Book for 1903 (Mailed on request) is full of good things, and gives the most reliable information about all seeds, both for the Farm and Garden.

T. W. WOOD & SONS, Seedsmen, Richmond, Va.

WOODS' SEED BOOK also tells all about Grass and Clover Seeds, Seed Potatoes, and all Farm Seeds. Write for Seed Book and prices of any Farm Seeds required.

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