

CURIOUS AND SCIENTIFIC.

EFFECTS OF TORPEDOES.—Experiments are now being conducted at Cherbourg, France, in order to determine the effects of submarine torpedoes. An apparatus charged with 3,900 lbs. powder was sunk to a depth of 50 feet. On explosion a column of water 500 feet in height was thrown into the air, and a hulk anchored at a distance of 18 feet from the spot was broken completely in two. The earth at the bottom was torn up, making a hole 40 feet in diameter and about 5 feet deep.

VALUE OF WALNUT TIMBER.—As an illustration of the increasing value of walnut lumber, the Indianapolis Journal notes that the standing walnut trees on a half section of land on Eel river, in Miami county, Indiana, were sold to a lumber dealer for \$17,000. There is a large amount of other timber on the tract which is not included, only the walnut timber being sold. Walnut lumber is coming more and more into use throughout this country and Europe, and at present a very large business is done in preparing and shipping it from Indiana.

NEW GLAZING FOR POTTERY.—A kind of lead glazing is used upon common pottery, the employment of which often causes cases of lead poisoning among the workmen. M. Constantin, of Brest, France, has recently devised a substitute, which is said to be much superior, and to possess the hardness and inalterability of glass. He uses silicate of soda, pulverized quartz, chalk, and a small proportion of borax. This glazing may be colored green by copper, and brown or violet by manganese. It is already coming into use in many of the largest French potteries.

PRIZE AWARD.—The Berlin Academy of Sciences will award a prize of \$200 in July, 1876, to that student of science who shall solve the following problem most satisfactorily: Steel when quickly cooled after heating exhibits a change of color and of the texture and density of its material, besides becoming much harder and more brittle. The causes of these changes—whether they are physical or chemical, or both; what are the comparative analyses of the two conditions, and what the relative quantities of carbon in those different conditions of the metal—are the questions to be solved.

WATER-PROOFING LINEN.—Prof. Kuhl gives the following directions for this purpose: Pass the linen first through a bath of one part of sulphur of alumina in ten parts of water, then through a soap-bath, of which the soap is prepared by boiling one part of light-colored resin and one of crystallized carbonate of soda with ten parts of resin until the resin is dissolved. The resinous thus formed is to be separated by the addition of one-third of common salt. In the soap-bath the resin-soap is dissolved together with one-part of soda-ash by boiling it in thirty parts of water. From this bath pass the articles finally through water, then dry and callender. Made-up articles may be brushed with the solutions in succession and be rinsed in the rain. Wooden vessels may be employed.

AN INTERESTING DISCOVERY.—Some workmen, while engaged in laying water pipes in Cividade, Italy, recently encountered a large flat stone. On raising this a bed of mason work was revealed, in which was placed a stone sarcophagus covered with a marble lid. Within the receptacle were the remains of a human skeleton; some portions of which were yet perfect. Beside the body lay a sword, lance, helmet, spears, a gold clasp and ring, a piece of very beautiful gold tissue, and a flask of water which was still remarkably clean. The removal of clay from the bottom of the grave brought out the letters Gisul—from which archaeologists have decided that the remains are those of Gisul, duke of the Lombard marches of Friuli, who fell in battle in 611, while repelling an invasion of the Avars.

COATING CAST IRON WITH COPPER.—The society of forges and foundries of Val d'Osne has recently opened in Paris an exposition of their various products, consisting of objects of art in cast iron, some of considerable volume, which are covered with copper by the Gaudoin process. This operation admits of the deposition of copper upon cast iron without necessitating any previous coating of the latter. The difficulty of accomplishing this has been the scouring of the iron, the baths of chemicals hitherto used being incapable of thoroughly cleansing the metal. M. Gaudoin has found that very acid solutions are necessary to remove the oxides of iron which escape the scouring; but at the same time the acids do not attack the subjacent metal. Such a solution acts continually on the points upon which the copper is not deposited, and ends by dissolving the oxides and allowing the deposition to take place. A large number of organic acids have been found suitable for the purpose. The oxalates of copper combined with the sulphate of soda are said to give the best results. An electric current is employed to secure the fixing of a thick layer of copper.

THE Real Rich Man.

Many a man is rich without money. Thousands of men with nothing in their pockets are rich. A man born with a good sound constitution, a good stomach, a good heart, good limbs, and a pretty good head-piece, is rich. Good bones are better than gold; tough muscles better than silver; and nerves that flash fire and carry energy to every function are better than houses or land. It is better than a landed estate to have the right kind of father or mother. Good breads and bad breads exist among men, really as among herds and horses. Education may do much to check bad tendencies or to develop good ones; it is a greater thing to inherit the right proportion of faculties to start with. The man is rich who has a good disposition—who is naturally kind, patient, cheerful, and hopeful.

A lady correspondent at the seaside is annoyed because the evening attire of gentlemen and the dress of waiters is precisely the same, and by way of distinction, she suggests that the latter wear green neck-ties.

Receipts for Making Dr. Sage's Catarrh Remedy and Dr. Pierce's Golden Medical Discovery

Something over a year since, a periodical issued in Berlin, Prussia, and laying claims to a scientific character, published what was represented as being the formula or receipts for making Dr. Sage's Catarrh Remedy and Dr. Pierce's Golden Medical Discovery. The people were left to infer that these had been detected from a careful chemical analysis of the medicine, which are rapidly growing in popularity in that as well as in this and most other civilized countries. The receipts were evidently invented by these jealous of the reputation and large sale which these medicines are rapidly acquiring and who are especially interested in endeavoring to check their sale. So ridiculous are the propositions are those receipts that medicines compounded after them could never have gained any reputation or sale in any country, for they would be so caustic, poisonous, immediately and positively injurious, as in every case to be promptly condemned by the people on the first trial as a miserable, dangerous and wicked humbug. Whereas, it is a well known fact that all medicines enjoy the reputation, honestly earned, of being not only efficacious, but perfectly mild, pleasant and harmless in effects. Notwithstanding, however, that the bogus receipts were so ridiculously profligate as scarcely to be considered as worthy of notice, unscientific, thoughtless and unsuspecting people, yet strange and incredible as it may seem, a paper of high scientific pretensions, published in this country, copied the fictitious receipts from the German paper. This they did without a moment's reflection, for that which is considered as a matter of intelligent mind, to the receipts and the properties and effects of the mixtures that would result from such a compounding of well known caustic and poisonous chemicals and drugs, would have condemned them as bogus fabrications, and the pretensions of the publishers of the paper that originally inserted them as knaves or fools. On my attention being called to the matter, in order that some thoughtful and over credulous people might not be deceived and misled by seeing such an announcement in a paper laying claim to a scientific character, as well as to clear myself of the imputation of being guilty of perpetrating a wicked fraud upon the people, as such an announcement, if uncontradicted, would imply, I, as proprietor and manufacturer of the aforesaid celebrated medicines, went before a magistrate and made oath to the fact that the said receipts were entirely false. My affidavit was sent to the publishers of the paper into which the bogus receipts had been copied, and in a subsequent issue an editorial notice was given of my denial. But, notwithstanding such correction and denial, made in a material and indisputable manner, around and infest our large cities, and livelhood by perpetrating all kinds of calumnious frauds upon the credulous, were thereby given the hint that, as my medicines were universally popular, by advertising for sale bogus receipts for making them, they could get lots of money. It was in this manner that one Frank M. Reed, of 139 Eighth street, New York, who publishes "Love and Courtship cards," "The Mysteries of Love Making," "How to Woo and Win," and various other swindles, and the following in exchange for their stamps. It is copied from the papers alluded to and is as follows: "For Dr. Sage's Catarrh Remedy, take eight grains carbolic acid, seven grains of camphor, and two and a half grains of common salt, the whole to be colored with a little Prussian blue." This is a most wonderful and dangerous mixture. Dr. Sage's Catarrh Remedy (which is perfectly unirritating, mild, soothing, and pleasant) is light in color, and as "a burnt child dreads the fire," if any have been so foolish as to have burned their noses sore with this compound, thinking that they were using the genuine, as Dr. Sage's Catarrh Remedy, they will, if it is the "bopop" profit by the lesson thereby taught them, and not so readily next time to bite at every catch-penny advertising dodge that swindlers may offer them. For Dr. Pierce's Golden Medical Discovery the bogus receipt reads: "Take four drachms of opium, fifteen grains extract poisonous lettuce, thirty grains of opium, three and a fourth ounces dilute spirits, three ounces water. Mix." Of the ridiculous bogus formula I will say, as I did under oath, not one of the medicinal or poisonous ingredients therein enters into the composition of my Golden Medical Discovery! And furthermore, I will say that I defy all the chemists in the world to ascertain, by chemical analysis, the composition of any of my family medicines, as they cannot be analyzed to determine their ingredients, many of which are vegetable extracts, and like nearly all vegetable extracts, they are known reagents or chemical tests by which their presence can be determined. If any further proof is wanted to satisfy any person that the receipts given above are utterly false, compound, and not what it is been to be entirely unlike my Discoveries. The appearance, but if a further test is wanted, by taking a dose of it, it will be found to produce drowsiness and stupor, whereas my Discoveries, in ever so large doses, produces no such effect. Other receipts in different cities and engaged in advertising for sale bogus receipts for making my medicines, send those who bite at their bait and various ridiculous formulae. One sent out by a villainous knave, located in Chicago, gives the chief ingredient of Dr. Sage's Catarrh Remedy as being blue vitriol, and the other equal in absurdity by another issued by one in Philadelphia, who says that the ingredients composing Dr. Sage's Catarrh Remedy are "burnt alum, white vitriol, sugar of lead, and prussiate of iron," and that my Golden Medical Discovery is "simply syrup and tincture of ginger."

California's Biggest Nugget.—How much we owe to California! Her precious metals have enriched thousands of our fellow citizens, and have proved the main stay of America in times of national pecuniary embarrassment. Her mining industries have given employment to myriads of mechanics and laborers. She is the land of promise to the fortune seeker. But the golden state has lately sent us a new treasure. Her last nugget is Dr. Walker's California Vinegar Bitters. The health-giving principles contained in this curative are a more precious boon than gold. In all affections of the liver and stomach, remittent and intermittent fevers, rheumatism, and pulmonary diseases, it may be relied upon. As a blood purifier and invigorant it is unequalled, purifying the circulation and infusing new vigor into the debilitated frame. It conquers that most unyielding of all complaints—dyspepsia, and we know of no other remedy that can accomplish this. Its entire freedom from alcoholic spirit, which retards and neutralizes the effect of any medicine, and which forms the basis of many of the pseudo bitters and tonics, doubly enhances its value to the sick. The papers of the United States vie with one another in doing honor to Dr. Walker. We, too, add our voice, and say all honor to the man whose science and skill have enabled him to draw from the vegetable kingdom such a balsam for human suffering.

The American Publishing Co., of Hartford, Conn., the well-known publishers of Mark Twain's books, have secured and are about to publish in Book Form the splendid work now appearing in Scribner's Magazine, and in our advertising columns announce their readiness to give agents fields to canvass. The great popularity of this work insures to the fortunate obtainers of Southern agencies a great return for their labor. See advertisement—Com.

The popularity of the Elmwood collar is well established. Not a word of complaint has ever been made against them, if they have not got them at your furnisher let them to buy some for you.

"Oh! ma, There's an angel with wings." "Pshaw! that's only a Louisville girl with her ears spread."

The Rice Divorce Suit for fraud in age is causing great excitement in Boston. It should warn young men not to marry in haste. Rice is 22; his bride 37. He swears that she made him believe that she was his own age, by using Magnolia Balm upon her face, neck and hands. Poor youth! He probably found her elbows weren't quite so soft and pretty. Ought Hagan to be indicted? We know of many similar cases. This Halm gives a most wonderful fresh and natural complexion, to which we don't object. We like pretty women. To finish the picture, they should use the Kathairon upon the hair. With pearls, chin, rosy cheeks, and soft, luxurious tresses, they become irresistible.

Fell from a Railroad Car, and nearly broke his neck. Pat picked him up, rubbed him with Mexican Mustang Liniment, and sent him on by the next train. Falls, bruises, cuts, contusions, lameness and such accidents are constantly occurring. There is nothing so sure, safe, cheap and convenient as the celebrated Mustang Liniment. It costs but 50 cents and \$1.00 per bottle, and no Family or Travelling Case of Horses should be without it. There is no flesh, bone and muscle ailment upon man or animal, like Rheumatism, Bruises, Spavin and Lameness, which it will not cure, or cure why will you suffer? Beware of counterfeits. It is stamped in a steel-plate engraving, signed "G. W. Westbrook, Chemist."

On Everybody's Tongue.—Eulogiums of the great National Regenerator of Health, FRAX-TOR BIRTERS, are on everybody's tongue. This gratuitous vice offer advertising is better than all the paid-for puffing to which the owners of bogus bitters are obliged to resort. It has a spontaneous heartiness about it which carries conviction to the mind of the auditor.

THE MARKETS.

MEMPHIS. Flour quiet and unchanged. Corn active and higher at 80¢@82¢. Oats dull and drooping at 55¢@56¢. Mess pork dull and nominal. Lard higher at 16¢@17¢. Bacon higher; shoulders, 10¢@10½¢; clear lard, 13¢@14¢.

NEW ORLEANS. Flour dull XXX, 55¢@50; choice, 55.75¢@56. Corn dull; white, 40¢@41¢; red, 39¢@40¢. Oats dull and lower at 35¢@36¢. Lard; hold at 24¢@24.60. Bacon in demand and advancing; shoulders, 10¢@10½¢; clear lard, 13¢@14¢; clear, 14¢@14½¢. Sugar-cured hams dull at 16¢@16. Lard dull and easier; hams, 15¢@15½¢; koga, 16¢. Whisky dull; Louisiana, \$1; Cincinnati, \$1@1.50.

CINCINNATI. Flour dull and unchanged; family, 55¢@50.55. Wheat dull and nominal; red, 11¢@1.05; white, 10¢@1.15. Corn scarce and firm at 68¢@70¢. Oats, 44¢@48¢. Rye, 85¢@84¢. Mess pork quiet, and unchanged at 23¢. Lard quiet; number one, 16¢@17¢; bulk, 15¢@16¢. Bacon firm; shoulders, 8¢@9¢; clear lard, 13¢@14¢; Bacon firm; shoulders, 9¢@9½¢; clear lard, 13½¢, closing 1/2¢ higher. Whisky firm at 96¢.

NASHVILLE. Cotton is dull and prices have declined to 14¢@15¢. Flour quiet and unchanged at 85¢@86.50. Wheat is steady with a moderate demand at \$1.20. Corn is steady with a moderate demand at 60¢@65¢. Oats, 60¢@65¢. Provision market is quiet, prices have advanced. Lard, 16¢@16. Bacon, shoulders, 14¢; clear sides, 14¢; clear sides, 14½¢. Ham, sugar-cured, 16¢, all packed. Whisky, demand fair and market firm at \$1.01.

LOUISVILLE. Flour quiet and unchanged; family, 55¢@50.55; fancy, 57.75¢@75¢. Wheat, 11¢@1.05; and unchanged; red, 11¢@1.05; white, 11¢@1.10. Corn, 74¢@78¢. Oats, 55¢. Rye, 90¢. Mess pork dull and declined to 22.50¢. Bacon firm; shoulders, 9¢@9½¢; clear lard, 13¢@14¢; clear sides, 15¢@16¢; plain, 14¢. Sugar-cured hams, 15¢@16¢; koga, 16¢. Whisky, 12¢@13¢. Lard, 16¢@16½¢; clear, 96¢.

of Buffalo, New York, occupies our entire eighth page to-day with his various articles. We know him to be a regularly educated physician, whose diploma hangs on the wall of his office, and we know that he has associated with him several of the most eminent practitioners in the country. We know that parties consult him, by mail and in person, from all the states in the union every day, and that they are fairly and honestly dealt with. We know that his medicines are sold in enormous quantities in every state in the union, and very largely in many foreign countries. "This grand result has been accomplished by two agencies—good, reliable articles—articles which, once introduced, work, easily, their way, and splendid business management. They have succeeded because they ought to have succeeded." In conclusion, I cannot offer a better refutation of the slanderous reports published concerning my medicines, than to call attention to the testimonials on file in my office, which are open to the inspection of the public. They are from all parts of the world, and express the gratitude of thousands that have been afflicted with chronic catarrh, lingering coughs, various blood diseases, affecting the skin, flesh and bones, severe diseases peculiar to females, and many other forms of obstinate ailments, and have been cured by the use of my Family Medicine, after suffering for years and being pronounced incurable by eminent physicians. R. V. PIERCE, M. D., Proprietor of Dr. Pierce's Family Medicines, World's Dispensary, Buffalo, New York.

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