SCIENCE AND INVENTION.

Work of the World's Busy Brains in Discovering, Inventing and Creating.

COTTON SEED OIL.

The Interstate Cotton Seed Crushers Association have gone about their business with a light and understanding merits and achieving a fine success, but no more than they deserve. The Pure Food Law has been a great help to them and it is arousing the people of the South to the many merits of cotton seed oil, which has hitherto come back to them only in adulterated products. They understand that it is quite as good as olive oil for food, and incomparably cheaper. It has every desirable quality of the best olive oil with none of the defects of the inferior grades, and it is absolutely clean. It is not touched by the human hands from the time the cotton goes into the gin until the oil is bottled and scaled

This in itself is an element of superiority over olive oil. In Europe, where oil is much more largely used for food than we have any conception of in this country, cotton oil is making a greater progress than it is in this. It is pointed out that Italy took from us last year 1,796 tons of cotton oil valued at \$208,247 and shipped back to us 4,162 tons of "olive oil," valued at \$797,669. That is, they made out



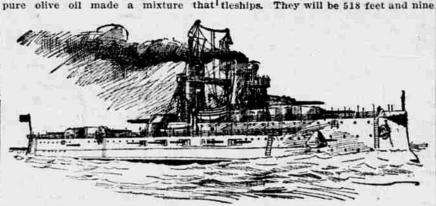
FREE TRIAL TREATMENT DR. JOS. LISTER & CO. 22 Fifth Ave. C-6 CHICAGO, ILL.

COOK REMEDY CO.

AMERICAN DREADNOUGHTS.

The United States to Have Vessels Which Will Cope With the Best Built Abroad.

In the Delaware and North Dakota it is expected that the United States will have two battleships equal, if not much superior, to anything that is being built across the ocean. They will have 20,000 tons displacement and carry 10 12-inch guns for the main armament. The best ship that France is building is the Danof us in the transaction, some \$600,000 ton, an 18,400-ton vessel, carrying four What is true of Italy is equally so of 12-inch and 12 9.4-inch guns. Germany France and Spain, both of which counhas the Ersatz-Sachsen, which will tries are selling back to us immense carry 16 11-inch guns. Japan is buildducers and manufacturers in the United the product of the olive trees. It was carrying four 12-inch and 12 10-inch long ago discovered that a mixture of will have 4 000 to a 12 to 10 to quantities of our own cotton oil as ing the Satsuma, an 18,800-ton ship, States. They are making a vigorous 70 per cent cotton oil with 30 per cent will have 4,000 tons greater displacement than the next heaviest of our bat-



THE ALL-BIG-GUN 20,000-TON BATTLESHIP NORTH DAKOTA

olive oil, and this fact is being made French and Italian people, who use oil in cooking, are beginning to strongly very satisfactorily and more rapid insist that they shall either have the ress made than calculated. The I cheap American oil or the high-priced Dakota has an unequaled fineness olive oil and not be made to pay olive oil prices for cotton oil. The California olive oil producers are moving in the direction of prohibiting the sale of the mixed oils as the pure olive oil

A formula has been published for making a very superior quality of liquid soap from cotton oil. On a small scale 40 parts of caustic soda, 40 of caustic potash, 500 of cotton oil and 250 of alcohol are mixed with sufficient distilled water to make 2,500 parts. In a glass-stoppered bottle the potash and soda are mixed in distilled water, the alcohol added and then the cotton oil, a small quantity at a time shaking vigorously after each addition. By a little shaking the saponification is completed. When delicately

THE KEY WEST RAILROAD.

scented it makes a fine soap for the

ladies' toilet table.

The quite remarkable railroad from the mainland of Florida to Key West, her deck will be a great glacis over the extremity of the Peninsula, has which her heavy 12-inchers may fire the extremity of the Peninsula, has which her heavy 12-inchers may fire the little of the litt been so far completed that a train without obstruction. All of the top now runs from Miami, Fla., to Knight's of length of this road, it is built normal water line, which will give them over the open sea with great stretches of embankment and bridging. For the High up in the air will be a "fire conpleted, the road will shorten the time of passage from Cuba to Miami by 10 hours, and from Cuba to Tampa by 12 hours. The building of the road is a novel and very high achievement in en
finders and telephoning the results of as much. The average is disturbed by some mountains of great hight, while the ocean maintains its level for enormous areas. As the ocean is two and a half times as great in area as the does not think that justice was done to a helt of armor, so that the gunners will be sheltered from a raking fire.

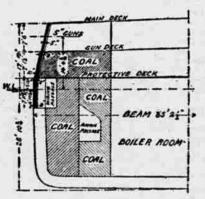
The building of the road is a belt of armor, so that the gunners will be sheltered from a raking fire.

The building of the road is a belt of armor, so that the gunners will be sheltered from a raking fire.

The building of the road is a belt of armor, so that the gunners will be sheltered from a raking fire.

The building of the road is a belt of armor, so that the gunners will be sheltered from a raking fire.

could not be detected from the genuine inches in length and 85 feet two and half inches in breadth on the loan water line. The Delaware is being buil much of by the people who buy quan- by the Newport News Shipbuilding Co tities of oil for home consumption. The and the North Dakota by the Fore Rive Shipbuilding Co. Work was begun last October, and has gone on ever since



CROSS-SECTION OF NORTH DAKO-COAL STORAGE.

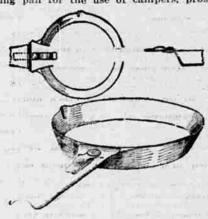
knots. Forward her deck will have a freeboard of 25 feet nine inches, and hamper, such as boat cranes, masting

to protect the gunner and limit the destructive effect of a shell to that par-

Much has been said about the armor Much has been said about the armor protection above and below the water line, and in these ships the coal storage is made to add to the protection of the boiler room, as will be seen by the following cross-section of a side of the North Dakota. The armor belt will be 22 feet eight inches wide, reaching from 22 feet eight inches wide, reaching from
the main deck to about five feet below
the water. The lower belt will be from
nine to 11 inches in thickness and the
upper belt from 10 to eight inches. The
citadel armor will be five inches in
thickness, and back of the thick armor
will be about 20 feet of coal. The Delaware will have triple-expansion engines
of about 25,000-horsepower, while the
North Dakota will have turbines of the North Dakota will have turbines of the same power. The contract price of the hull and machinery of the Delaware is \$3,987,000, and her contract calls for completion Aug. 6, 1910. The contract price of the North Dakota is \$4,377,000. and she is to be completed June 21 It is expected that these two s will represent about \$10,000,000 by the time they are put in commission

Campers' Frying Pan.

Olaf Lenschow and Christian Methic on. Butte, Mont., have patented a fry-



model, and is expected to steam 21 of the walls of the aorta, or main ar

Science Notes.

There are many valuable woods in Tribune. now runs from Miami, Fla., to Knight's and bridges, have been reduced to the key. It will be remembered that for lowest limit. The guns will have an some of the most useful kinds—e. g., more than one-half of the 156 miles clude export to other countries.

of embankment and bridging. For the present, the road will connect with steamers at Knight's Key. When comfinders and telephoning the results of as much. The average is disturbed by Each gun is, in fact, in a little casemate water for 30 times over.

PICKET SHOTS

rom Alert Comrades Along the Whole

Chancellorwille.

Editor National Tribune: I am folowing you on the Chancellorsville In my opinion, no corps campaign. in our army could have withstood the fierce assault of Jackson's men; but supposing Barlow's Brigade, Sickies's Corps, and Williams's Division of Slocum's Corps, had been in their places, from which that wild goose chase under Sickles took them (a force probably equal to Jackson's in every way) last week for Richmond and the battle-had been there to receive the broken field of Cold Harbor, where they will lines of the enemy as the Eleventh Corps fell away, I feel that Jackson would have been defeated right there, and attribute our defeat largely to that movement under Sickles which took men out of position to have received Jackson calmly with shotted guns. True, these troops fought the rade P. F. Hodge is the President, P. next day, but to the greatest disadvantage and with sure defeat staring the Hissong the Secretary. Pension Office, Washington, D. C.

Iowa Soldiers Voted.

that Iowa gave the largest Republican was called by many. This was much majority at the Presidential election of 1864 of any State, and much of this was a fort of considerable dimensions, deep due to the soldier vote. They held the ditches and built from the earth. When election near Kenesaw Mountain, as it was taken many Confederates were they were driving Hood's army North captured, who could not escape across for Pap Thomas to grind up. He and Lieut. Ingram went to the polls, where they found a large supply of McClellan recapture Fort Gregg, and it is possible to the bolt white the could be compared to the could be considered. deutenant-Colonel had brought the Mc dellan tickets, and said there were no

John W. Magam, who served in the army over four years, and has been a letter carrier for 31 years, now reside Mrs. Belle Beach, the well known rld- at Burkett, Neb. His elder brother, nov ing instructress, whose summer classes dead, served 19 years as a soldier and at Newport afford the prettiest possible 29 years as a letter carrier. He had two spectacle on their morning canters other brothers and two brothers-in-law. spectacle on their morning canters other brothers and two diodicinal than the spectacle on their morning canters other brothers and two diodicinal than the spectacle on their morning canters other brothers and two diodicinal than the spectacle on their morning canters other brothers and two diodicinal than the spectacle on their morning canters of the South, but only as a loyal part of the Union. There are millions of love-an's breadth of hip and disposal of lowed to carry beer in their canteens instead of water. He is certain that he will be specially be an original than the special than the s her lower limbs, all place the rider at voices the opinion of 90 per cent of the a disadvantage on a cross saddle. disadvantage on a cross saddle.

boys who marched under the shadow of The old suspicion that tobacco affects

Old Glory during the war, and he is to keep the rebellion alive, are not the heart and even plays some part in arteriosclerosis—the dreaded thicken-did not drink anything but water could against the Government. ing of the arterial walls so common in march farther and stand the hardships TA, SHOWING PROTECTION AF- human decay-has been confirmed by much longer than the men who drank FORDED BY HEAVY ARMOR AND bits inoculated with tobacco extract, a battle late in the day with an army with nicotine, and with adrenalin, all of men who had drunk beer all day in-showed marked thickening and dilation stead of water.

A Patriotic Boy.

Calvin H. Pyles, Newburg, W. Va. says that the he is only a boy of 18 he greatly enjoys reading The National He had five uncles and one Colombia. Where required they are grandfather in the war, and could also used locally, but difficulties of transmention many other relatives. Four of port and the phenomenal weight of his uncles and his grandfather were in some of the most useful kinds—e, g., the infantry and the other uncle was in the infantry and the other uncle was in the cavalry. His grandfather never came back, having been captured and starved to death before he could reach It has been determined that the mean the Union lines. He is deeply angered at the attempt to erect a monument to

Burnside was not equal to the command was no reason why the whole corps should be censured for his fail-Comrade Robinson was in the Second Brigade, Second Division, and they advanced nearly to the stone wall, when he was shot thru the right arm. He knows that his division and brigade were in the thick of the fray. were no better men in the service. While all the boys liked and respected Burnside, they felt that he was not equal to the emergency.

Pennsylvania at Cold Harbor.

A commission consisting of Comrades Josiah Hissong, 55th Pa., Point, Pa.; P. D. Bricker, 13th Pa, Cav., Jersey Shore; P. F. Hodge, 55th Pa., Swiss-vale; W. S. Underwood, 97th Pa., West Chester, and C. F. Gramlick, 112th Pa Philadelphia, passed thru Washington select a site and mark positions for a ments, which took so prominent a par in the sanguinary assaults of June 1-12, 1864. The Legislature has appropriated \$5,000 for the monument and \$1,000 for the expenses of the commission. Com-

Capture of Fort Gregg.

Robert A. McAllister, Baltimore, Md., wishes that some Confederate soldier Charles Chandler, 6th Iowa, 821 would write up his reminiscences of the ickets, but none for Lincoln. Their that Gen. Hill was killed in this effort.

Found at Plymouth, N. C.

Lincoln tickets to be had. He and Editor National Tribune: During the Lieut. Ingram went over to the camp Winter or '62 or '63 my father found a of the 3th Iowa, where he found a large silver watch that was left in the guard supply of Lincoln tickets, and brought house at Plymouth, N. C., by some of them back for the boys. There were the Federal troops doing guard duty at over 200 votes cast for Lincoln and but that time, and which was left by one of Cav., Oakdale, Cal., makes a strong and two for McClellan. The latter were them when the Confederates took convincing argument that the retention cast by Lieut.-Col. Clune and Private charge of that town for a short period. ing handle, enabling it to be packed much more closely than the ordinary much more closely than the ordinary frying pan, which makes an inconvenient addition to any ordinary outfit.

Beer in the Army.

Cast by Leat.-Co., Claim and Frivate In and Frivate In a short period of the motto "In God We Trust upon the coins gives them no additional value, we would be delighted to return it to him or his people. Any left in the Army.

They will buy no more by it, and those where it had been omitted will buy no more by it, and those where it had been omitted will buy no more by it. They will buy no more by it, and those where it had been omitted will buy no more by it. Hatton, Franklin, Va.

The Wirz Monument

H. A. Babbitt, 12th Ky. Cav., Fordsville, Ky., is a Southern man, but served in the Union army, and has always lived in the South. He loves the South, but only as a loyal part of

Monument to Ex-President Hayes.

Eugene Rawson Post, Fremont, O. has taken action strongly supporting bill now before the Legislature of Ohio, appropriating money for a suitable monument to ex-President Rutherford B. Hayes. He was an honored member of Rawson Post, and the Post strongly urges the passage of the bill.

Free Rheumatism Cure

A Home Care Will Be Given FREE By One



The Tortures of Rheumatism. In the spring of 1893 I was attacked by Muscular and Inflammatory Rheumatism. I suffered as only those who have it know, for over three years. I tried remedy after rem-edy, and doctor after doctor, but such relief as I received was only temporary. Finally found a remedy that cured me completely and it has never returned. I have given it to number who were terribly afflicted and ever a cure in every case.

I will send a free trial of this precious re edy by mail, post-paid to any sufferer who writes for it. Just fill out the coupon below

and mail it to me today. Mark H. Jackson, No.276 James Street, Syracuse, N.

The Motto On the Coins.

less. The purchasing quality of any coin depends upon the amount of gold or silver in it. We have no National religion and desire none,

Pensions for Texas Volunteers.

The committees in both Houses have favorably reported a bill pensioning the surviving officers and enlisted men of the Texas volunteers employed in the defense of the frontier against the Mexican marauders and Indian depreda-tions from 1855 to 1860, inclusive. The widows who have not remarried are inapplies to only a few hundred.

Thanks for the Tribute.

Editor National Tribune: I just want say that I thank you from my heart for the tribute you pay to my old Post Your editorial was read at our Post meeting last evening, and all the com-rades were highly pleased. Thanking you again, I am, Thomas Gilmore,

Widows. New Law.

Income or Property no Longer a Bar to Pension. The Law Allows Widows \$12.00 per Month,

if married prior to June 27, 1890, and \$2.00 for each child under sixteen. Pension to Commence from Date of Filing Application in the Pension Bureau.

We have Blanks ready to send by return Mail. Address

R. W. SHOPPELL & CO., Washington, D. C.

fact, it does not appear that the Ninth Corps was engaged at all. Because U. S. Pension Agents.

Stereoscope and Views Offer.



The National Tribune has made arrange ments with a large manufacturer of stereoscopes for such a very large supply that we are enabled to sell them at the very lowest pricea price that could not be secured by any party who would use only a limited number of the stereoscopes. The price is so low that we are enabled to offer to our readers a very handsome and serviceable stereoscope, together with The National Tribune for one year, at \$1.25. If anyone is dissatisfied with his stereoscope he may return it to us, postage paid, and we will return to him 75 cents.

Description of the Stereoscope.

The stereoscope is satin finish, aluminum hood, velvet edged, folding handle, oak-stained wood, perfect lenses of large size, purest glass, hood fits any face. The lens holder, the hanhood, velvet edged, folding handle, oak-stained dle, the partition, the shaft, and the stereoscope holder are made of good quality oak-stained wood, with a rubbeddown finish, giving it a beautiful luster not easily scratched or marred, as is the case with a varnished scope. Our as is the case with a varnished scope. Our

stereoscope is a rich and beautiful instrument. The rubbed finish, oak-stained wood, the velvet edge aluminum hood make an effective and attractive instrument. The handle, fixtures and the spring on the stereoscope holder are the best quality of spring brass. The stereoscope is carefully constructed on scientific principles, and hence will not strain the old world and new world and odd or tire the eyes as do so many inferior and cheap instruments. Price express charges prepaid, 75 cents. The National Tribune one year and the Stereoscope, both postpaid, \$1.25.

A New Series of Stereoscopic Views.

Eleven sets of stereoscopic views entirely new, up to date-no old copies. Every view copyrighted and never before published. This series of stereoscopic views is put on the market, claiming the recognition of all users of stereograpes, as new subjects never before published.

"Fighting Ships."

We have added to our list of stereoscopic views 25 very lifelike phototo the public. They are all colored in photo colors. life hues, which adds much to their vivid realism. Price, 35 cents.

The Life of Christ.

This set consists of 25 stereoscopic views of the life of Christ, the most graphs of the great battleships and produced. The great \$180,000 painting graphic views, in competitive contests, cruisers and of the crews at various of Christs last moments on Calvary, in of 25 groups of children and pets. This published. In photo colors occupations and pastimes. These are five tableaux, together with authentic is the prize series selected from comall photographs, and they give a more stereographs of the Holy Sepulchre, the petitive exhibition of some of the best accurate presentation of the ships and Manger, etc., as they are to-day, make photographers in the United States. It sallors and of life on board our fighting up the most interesting of all the views is exclusively made into stereoscopi ships than has hitherto been available that have been issued. In fac-simile views and reproduced in colored fac

Price 35 cents.

The Home Pet-

realistic set of stereoscopic views ever pet series and prize series of stereosimile stereoscopic views. Price 35 cents With The

The Destruction of San Francisco.

This set consists of 25 views of the destruction of San Francisco, being the most complete stereographic history yet Price 25 cents. With The National Tribune one year \$1. , , Wonders of the Old World.

This set consists of 25 stereoscop

views of wonders of the old world in ac-simile photo colors. Price 35 cents. With The

Odd Sights and Odd People, This set consists of 25 odd sights of people, their manners and customs. In fac-simile photo colors.

Tribune one year \$1.

Panama Views. This set consists of 25 views of the Panama Canal Zone as seen by President Roosevelt during his recent visit to the Isthmus. The set everyone wants.

Price 35 cents. With The Nationa

published. Price 25 cents. With The Nationa Tribune one year \$1.

Century wonder-nothing like if ever

A New Series of Comics.

This set consists of 25 new and mirthcluding sets of comic situations in facsimile photo colors.

A Letter From One Who Purchased the Van Dyne, Wis. My Dear National Tribune: I received by this morning's mail the full eight sets of stereoscopic views. I am just delighted with them. They are far better than I expected for the small price you ask. This makes me 1,800 of stereoscopic views, and a great many are as fine views as money can buy. So you see I may be classed as a "crank" in that line. Many thanks for the views. I would gladly pay the whole price in that line. Many tranks for the views. I would gladly pay the whole price asked for just the Panama and 'Frisco alone. Wishing you all the health and prosperity possible, I remain, as ever, Yours, in F., C. & L., Theodore Herrling.

Wedding Bells. 25 Magnificent Stereographs.

A set of stereoscopic views taker from life, real living and breathing lovers, and the interesting situations in love, courtship and marriage. Price 35 cents. With The Tribune one year \$1.

25 Views of Its Noted Places and Won The whole series is an up-to-date se of the most wonderful city of America It is a pictorial history of the 20th

perhaps of the world. Price 35 cents. With The Nation Tribune one year \$1.

A Trip Across the Continent.

This set consists of 25 fac-simile stereographs of a trip across the Contirovoking comic scenes from life, in- nent, including all the historical and wonder spots of America. In fac-simil shoto colors.

Price 35 cents.

The Jamaica Earthquake. 35 Stereoscopic Views of the M Striking Freaks of the Earthquai and the Odd Sights of the Peop Price 35 cents. With The Nati Tribune one year \$1.

UNCLE SAMS FIGHTING SHIPS. (25 colored views.) 35 cents. THE LIFE OF CHRIST.

(25 colored views.) 35 cents. A TRIP ACROSS THE CONTINENTA Trip Around New York City (25 colored views.) 25 cents. PANAMA VIEWS.

(25 views, plain.) 25 cents THE DESTRUCTION OF SAN FRAM. CISCO. (25 views, plain.) 25 cents

WONDERS OF THE OLD WORLD. (25 colored views.) 35 cents. ODD SIGHTS AND ODD PEOPLE. (25 colored views.) 35 cents. NEW SERIES OF COMIC VIEWS.

(25 colored views.) 35 cents.

THE HOME PET PRIZE SERIES. (25 colored views.) 35 cents. Any set of views and The Natio