# Scientific American.

## SCIENTIFIC MUSEUN

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#### For the Scientific American Horse-Shoeing --- Interfering Horses.

One writer in the Scientific American recommends raising the shoe upon the inside, and another the reverse; which is correct? I answer-both; and I also say both are in error. The lateral motion of the fetterlock joint is small, and the effort to throw the ancle out by the method recommended by Mr. Jewett usually produces inflammation of the cartilages and ligaments of the joint, and many times destroys the socket by absorption of the heads of the bone, leaving the ancle permanently enlarged, and ruining the horse for road or market. The paring off the hoof from the inside will have the same effect, if it is carried to an extent, to put the shoe farther under the foot than it ought to be.

Many horses in ill condition will interfere in spite of all remedies, when jaded or allowed to shack upon the road. The best remedies are the good condition of the horse-skillful shoeing, i. e., neither inclining one way nor the other, but made to resemble the fair hoof of the horse as near as may be, being as light as possible. And instead of shoeing so as to have the shoe standing like a three-legged stool, allow all the shoe to touch the ground, by having a flange turned upon the whole outer edge of the shoe. The best horse-shoe ever brought into use, is one recently invented by Mr. Wm. A. Sweet, of Pompey, N. Y.; it is made of good spring steel, smooth inside, with a flange turned on the outer edge; it will soon come into general use. In applying the shoe to cure the interfering foot, the clinches should be kept close, and the nails set well into the groove; the improved shoe protects the nails by its flange. The unnatural shoeing will accomplish all that can be expected, in a few days, but the result of such practice is too often injurious to admit of its general use. Your last correspondent requires no reply. S. A.

Syracuse, N.Y.

MACHINERY MANUFACTURED IN ALABAMA The establishment of the Montgomery manufacturing Co., says the "Advertiser," under the control and management of Messrs. Gindrat & Co., is now not only the largest of the kind in the South, but is turning out machinery, the style, beauty of finish, and strength of which, are second to none.

In taking a stroll through their extensive shops a few days since, we were shown by Mr. J. S. Winter, (one of the proprietors of the establishment) an engine, the appearance of which we will not attempt to describe-but merely affirm that it was-although yet unfinished, the handsomest piece of machinery we ever saw. We never knew before that iron could be brought to so fine a polish. It will well pay any one for the trouble to go and examine it. The engine, which is of thirty horse power, is to be sent to the Fair in Georgia. It is appropiately named the "Alpha," and if we mistake not, will receive the first premium.

This establishment commenced the con-

POISON OF THE TOAD .--- It is an ancient and good tallow," are miserable in the extreme; light, in all which respects it is superior to reader, which is not treated in the most able manstill common opinion that the toad possesses a every other species of candle. This candle is they melt away with a lard-like softness very ner-the Editors, Contributors, and Correspondents nearly translucent, and can be made to exhibeing men of the highest attainments. It is, in fact, subtle venom, but at present this is deemed fafatal to the pockets of purchasers. The combulous by the scientific. MM. Gratiolet and the leading SCIENTIFIC JOURNAL in the country. bit the wick, when the candle is held up bemon sperm candles sold in our stores exhibit tween the eye and the light, while the surface The Inventor will find in it a weekly DIGEST Cloez, as appears by the reports of the Acadequalities of a near relationship to the lard talof AMERICAN PATENTS, reported from the Pamy of Sciences, have shown by experiment is as glossy as polished wax or varnish. ow candle. an original fea ent Office, that they secrete a deadly poison. They in-When I state that the principal ingredient other weekly publication. Steven's Siding and Flooring Machine. occulated small birds with the milky fluid TERMS-\$2 a-year; \$1 for six months. is our great staple, lard, the value of this macontained in the dorsal and parotid pustules of All Letters must be Post Paid and directed to We have heard so many favorable reports nufacture can hardly be exaggerated, and when MUNN & CO., this animal, and found that they died at the I say explicitly that, taking durability into oncerning the operation of this wonderful in-Publishers of the Scientific American, end of five or six minutes. Even when dried vention, that we concluded to witness its peraccount, it can be made as cheap as any other 128 Fulton street, New York. the fluid destroyed birds. Death occurred candle, and that there exists no single element formance, which we did to our astonished sa-INDUCEMENTS FOR CLUBBING without convulsions, and all exhibited marked of comfort, convenience, profit and economy | tisfaction, on yesterday afternoon. It is a saw-Any person who will send us four subscribers for signs of apoplexy. in which this article has not the advantage of ing machine, and was invented for the purpose six months, at our regular rates, shall be entitled to sperm, star, wax, or tallow candles, it will be of sawing out lumber for flooring and siding THREE-DECKED MAN-OF-WAR STEAMERS .one copyfor the same length of time; or we will readily conceded that the days of all other uses, which, by the way, it does with a most An interesting experiment is in preparation at urnish portable or table light, including lard oil, are surprising dispatch and in a most superior Ten Conjes for Six Months for the seaport of Toulon. The French Govern-\$ 8 Ten Copies for Twelve Months, 15 numbered. In fact, except where intense light, manner. This machine runs thirty-two saws, ment has ordered an engine of 400 horse power Fifteen Copies for Twelve Months, 22 to be put into the man-of-war Napoleon, of as in public buildings, is an object, gas itself and is capable of sawing as many boards, ten Twenty Copies for Twelve Months, 28 cannot compete with it for public favor. I or twelve feet in length, in three minutes. It one hundred guns. It is calculated that this Southern and Western Money taken at par for machine will propel the vessel at the speed of am not at liberty, in this stage of the enter- promises to meet with a most welcome adopsubscriptions, or Post Office Stamps taken at their eight miles an hour. The attempt is looked prise, to be more explicit, but shall shortly tion, wherever sawing and building is necessa full value.

upon with considerable interest in France and tically through the ship, and in slides a cylinother ships.

DIVING VESSELS .- Mr. Cave, the owner and manager of one of the first iron workshops in Paris, is now building two large boats to be used under water in the work of clearing away the bar at the mouth of the Nile. They are on the new plan, and better than anything An apparatus of the same kind, but on a reof the kind we have heard of. In the middle of the deck is a large circular hole, going ver- Seine.

England. If successful it will be imitated in der reaching to the bottom of the river, which may be shortened or enlarged at will, like a telescope. Above the opening is a large air chamber 22 feet in diameter and 16 feet high. By forcing compressed air into the air chamber the water in the tube is driven out at the lower end, leaving dry a portion of the bed. duced scale, is now in operation on the river

### A CHEAP COTTAGE.---Fig. 1.



Small Bracketted Cottage, taken from "Downing's Cottage Houses." Figure 1 is a perspective view, and figure 2 a plan view. It is designed with a regard to cheapness, and comwould prefer to live in their own dwellings, as their own landlords, "happy and free."

The plan of the first floor of this cottage venteen feet. The deep chimney-breast at the end of the room gives space for two large Fig. 2.



closets. The bay-window measures six feet in the opening (in the clear), and is three feet deep.

On the right of the entry is the kitchen, a small room, ten by twelve feet. As the living in a great measure, the wooden houses now room of the family will, in a great measure, be | built, not only as a more desirable but a cheapalso the kitchen, this small kitchen will, in er material.

#### Improved Candles.

struction of steam engines about 18 months stated rests upon my personal knowledge and Cist's Cincinnati Advertiser thus mentions copious Index, and from FIVE to SIX THOUSAND observation, and the statements of judgment since, and have turned out over eighty since a new species of candle recently produced in ORIGINAL ENGRAVINGS, together with a vast that time. Such establishments as this among and veracity. that city: "it is calculated to supersede all amount of practical information concerning the prous do away with the necessity of sending to gress of INVENTION and DISCOVERY throughout We hope the above is correct in every parother kinds in use, by its beauty, freedom from the world. There is no subject of importance to Northern markets for machinery. guttering, hardness, and capacity of giving ticular, for the candles now sold in our city for the Mechanic, Inventor, Manufacturer, and general

The accompanying engravings illustrate A | fact, be used as a back kitchen for the roughwork, washing, etc., so that in summer, and indeed at any time, the living-room can be made to have the comfortable aspect of a cottage parlor, by confining the rough work to mends itself to many of our mechanics who the kitchen proper. Back of this kitchen is a small lean-to addition, containing a small pantry, four by six feet, and a place for coal. There is a small passage between this closet shows an entry, six by twelve feet, containing or pantry and the coal-hole, and opposite the a flight of stairs to the chamber floor, under door opening from the kitchen into this paswhich are stairs to the cellar. On the left is sage, is a door which serves as a back door to the living-room of the family, fifteen by se- enter the kitchen without going in the front entrance. Planed-and-matched or rough boards may be used for the vertical weather-boarding; we should prefer to have them rough (if the cottage is filled in), and painted and sanded. In this we include a cellar under the kitchen and entry, but not under the livingroom. The foundation walls of the latter should be laid three and a half feet below the level of the ground. It is estimated that a cottage of this descrip-

tion, withing six miles of New York City, could be built for \$600, but it could be built for \$100 less in the country where lumber is cheap. At the present moment "lumber is lumber," as the old saying is; it is therefore no small expense to build houses at present. It is our opinion that cast-iron must supersede;

publish further details. What I have already

ry. We understand that Mr. Stevens intends taking one of his invaluable patents to the Pinery. It will be a profitable machine in that section of the country. He is going to increase the number of saws to seventy-five. We advise all who take an interest in a truly valuable invention, to give this machine a visit. Mr. Stevens will be pleased to gratify those who desire to witness its operation, if they will call at the United States Foundry, in the southern part of the city .- [St. Louis Reville.

[There may be some good improvement about this machine, not described, but if the invention consists merely in working gangsaws it is not new, for gang saws were employed in our country before the Revolution. We have never known so large a gang used as that by Mr. Stevens, but the larger the gang, the greater the power required to work them.

#### LITERARY NOTICES.

THE MIND AND THE HEART.—Messrs. Adviance, Sherman & Co., No. 2 Astor House, have just issued a neatvolume of 72 pages of poems, by Franklin W. Fisk, when in his eighteenth year. They would be no discredit to an older head—several of them are full of touching pathos.

SKETCHES AND STATISTICS OF CINCINNATI IN ISÅI: Wm. H. Moore & Co., publishers, 118 Main street, Cincinnati, pp. 363. We are indebted to Charles Cist, Esq., the author, and compiler, for a copy of this publication. It is arranged under 15 classifications, viz., Physical characteristics, Person-al Statistics, Education, Science, and Literature, the Fine Arts, Monetary, Public Institutions. Manufac-tures, and Industrial Products, Transportation, Com-merce, etc., together with miscellaneous information, the biography of eminent residents, and splendidly embellished with their portraits, executed in excel-lent style, besides views of some of the most promi-nent public buildings. Mr. Cist has done himself much credit in the production of this work, and we hope a discerning public will reward his efforts. In looking cursorily through this volume, and examin-ing some of the statistics embraced in it, we are struck with the enterprize and greatness of Cincin-nati. nati.

HARPER'S MAGAZINE for November contains a continuation of Mr. Abbott's illustrated series of the Life of Napoleon; it is rich in gems of literature. The present number closes the volume. Harper & Bros., New York.

THE INTERNATIONAL, for November, Stringer & Townsend, is a beautiful number, well embellished, and ably supplied with the choicest reading.

PRACTICAL MODEL CALCULATOR .- No. 3 of this work, edited by Oliver Byrne, and published by Hen-ry Carey Baird, of Philadelphia, has just been re-ceived it contains articles on Cuttings and Embank-ments, Calculations on the Steam Engine, &c.

MAGAZINES FOR NOVEMBER.-We are indebted to Messrs. Dewitt & Davenport, for Graham's and Sar-tain's Magazines. They are both excellent numbers.

We have received from Hon. Wm. H. Seward a pamphlet copy of his able argument in the Conspira-tor's Trial, at Detroit. It is neatly gotten up by Messrs. Derby & Miller, Auburn, N. Y.

## TO MECHANICS, INVENTORS, AND MANU-FACTURERS.

## SEVENTH VOLUME OF THE SCIENTIFIC AMERICAN.

MESSRS. MUNN & CO., AMERICAN & FOREIGN PATENTAGENTS, And Publishers of the SCIENTIFIC AMERICAN, espectfully announce to the public that the first number of VOLUME SEVEN of this widely circulated and valuable journal was issued on the 20th of September in AN ENTIRE NEW DRESS, printed upon paper of a heavier texture than that used in the preceding volumes.

It is published weekly in FORM FOR BINDING, and fords, at the end of the year, a SPLENDID VO-LUME of over FOUR HUNDRED PAGES, with a