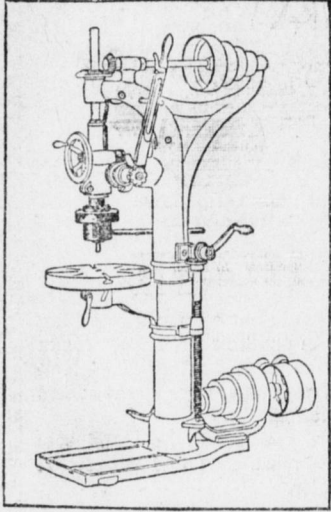


INDUSTRY AND MECHANICS

TO BORE SQUARE HOLES.

German Invention That Will Bore Holes Square—Said to Be Mechanical Wonder.

A three-cornered drill that bores square holes and that can be used on



Machine That Makes Square Holes.

any lathe, drill press or milling machine is one of the latest improvements in mechanical tools. This tool will have a wide field of application in wood, stone and metal working materials. The time occupied by usual methods of cutting square or angular holes is so great as to bar their use except on expensive work, but when using the new drill a square hole can be bored nearly as rapidly as boring a round hole with a twist drill.

With a little change of the drill, triangular holes, and holes with five, six or more sides can be bored as desired. The device for doing this work consists of a special drill, three-cornered for making square holes, and a special chuck for holding this tool which is fixed on the ordinary lathe or drill press. This chuck contains three parts that move independently of one another. First, a part that screws on and revolves with the spindle of a lathe or drill; second, a stationary part which rides on the first part, and third, a holder into which the shank of the drill is screwed. This holder is caused to rotate with the first part, but is at liberty to move sidewise a certain distance in any direction. The exact motion is determined by a guide in the second part of the chuck which surrounds the shank of the drill.

The shank of the drill is three-cornered, but not exactly triangular—that is, the three sides are convex, being formed by arcs of circles struck from centers at the opposite corners. The three-cornered shank just fits into the square guide and as the shank turns around in the guide which is held stationary the three corners of the shank in turn enter into each of the four corners of the guide. At the same time the three corners of the cutting head strike out the sides of the work.

LEAD-WEIGHTED GLOVES.

German Inventor Who Has Provided Something for Golfers.

A German inventor has designed a glove for golfers, the fingers of which are provided with little lead weights at the base. These weights rest just over the third knuckles of the forefingers and thumb, and it is claimed that this additional weight on the hands gives an impelling force to golf clubs which cannot be gained by making them heavier.



SAVING PAINT MONEY

It Cannot Be Done by Using Cheap Material and Cheap Painters.

In arranging for painting, a good many property-owners try to save money by employing the painter who offers to do the job cheapest—or try to save money by insisting on a low-priced paint. But no property-owner would run such risks if he realized what must be taken into consideration in order to get a job that will wear and give thorough satisfaction. No houseowner will go wrong on the painting question if he writes National Lead Company, 1902 Trinity Building, New York, for their Houseowner's Painting Outfit No. 49, which is sent free. It is a complete guide to painting. It includes a book of color schemes for either exterior or interior painting, a book of specifications, and an instrument for detecting adulteration in paint materials.

Nearly every dealer has National Lead Company's pure white lead. (Dutch Boy Painter trademark) If yours has not notify National Lead Co., and arrangements will be made for you to get it.

HIS LUCK.



"Why didn't you come around earlier? The snow is all melted away." "Dat's just my luck, lady. Every time I feels like workin' de sun comes out and does me out of a job!"

The Missionary Mule.

"That mule," said the old farmer, "is what I call a 'missionary mule,' an' I'll tell you why: It throwed one man on his head, an' when the man wuz able to be up an' about ag'in, he went to preachin'; an' the last time the sheriff come to levy on that mule the critter kicked him 'cross the county line, whar they wuz holdin' a campmeetin' an' I'm blest of the sheriff didn't git religion an' quit runnin' fer office—'w'ich wuz uncommon hard to do, seem' that the office habit run in his blood. I tell you, nuthin' in this here world is to be despised, w'en as humble a critter as a mule kin be a missionary!"

What Charlie Had.

Several of the scholars had returned to Sunday school after being absent some weeks, on account of illness. "I had the measles," said one little girl. "I had the 'umps," said another. "So did I," said a third. The superintendent heard them, and, addressing a curly-headed boy said: "Well, Charlie, you were absent, too. What did you have?"

Charlie's face flushed. He thought a moment and then sang out in high treble: "I had a little brudder!"—Delineator.

Not Our Discovery.

The Greek, Eratosthenes, 250 B. C., taught the doctrine of the rotundity of the earth, and the ideas of the sphere, its poles, axis, the equator, arctic and antarctic circles, equinoctial points and the solstices were quite generally entertained by the wise men of that time. There were plenty of men in Rome, therefore, who were prepared to talk about the earth as a sphere and to make globes illustrating their ideas.

It Jarred Him.

Howell—How did you come to break your engagement with that girl? Powell—I had reason to think that she hadn't enough practical knowledge to make her a good helpmeet. Howell—What gave you that idea? Powell—I told her one day that the hens weren't laying, and she said she supposed that would affect the price of egg coal.

"COFFEE DOESN'T HURT ME"

Tales That Are Told.

"I was one of the kind who wouldn't believe that coffee was hurting me," says a N. Y. woman. "You just couldn't convince me its use was connected with the heart and stomach trouble I suffered from most of the time."

"My trouble finally got so bad I had to live on milk and toast almost entirely for three or four years. Still I loved the coffee and wouldn't believe it could do such damage."

"What I needed was to quit coffee and take nourishment in such form as my stomach could digest."

"I had read much about Postum, but never thought it would fit my case until one day I decided to quit coffee and give it a trial and make sure about it. So I got a package and carefully followed the directions."

"Soon I began to get better and was able to eat carefully selected foods without the aid of pepsin or other digestants and it was not long before I was really a new woman physically."

"Now I am healthy and sound, can eat anything and everything that comes along and I know this wonderful change is all due to my having quit coffee and got the nourishment I needed through this delicious Postum."

"My wonder is why everyone don't give up the old coffee and the troubles that go with it and build themselves up as I have done, with Postum."

Easy to prove by 10 days' trial of Postum in place of coffee. The reward is big.

"There's a Reason." Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

When Courage Failed. "Duke," said the hessess, eagerly, "did you see father?" "Yes." "Well?" "We talked about the weather." "What? Lose your nerve again? Why don't you brace up and talk like a man—a subject of a king on whose domain the sun never sets!" "Can't," moaned the duke. "All the time I was in your father's office he kept grinning at a big painting." "What painting?" "The battle of Bunker Hill."—Lippincott's.

\$100 Reward, \$100.

The readers of this paper will be pleased to learn that there is at least one dread disease that science has been able to cure in all its stages, and that is Catarrh. Hall's Catarrh Cure is the only positive cure now known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address: F. J. CHENEY & CO., Toledo, O. Sold by all Druggists. Take Hall's Family Pills for constipation.

One Thing She Was Sure Of. Grace—Really, mother, you seem cross this morning.

Mother (sternly)—How often have I told you not to let that young man kiss you?

Grace—I don't know, mother, but certainly not as often as he has kissed me.

Do You Feel Like This?

Does your head ache or simply feel heavy and uncomfortable? Does your back ache? Does your side ache? Do you feel fagged out? The tonic laxative herb tea known as Lane's Family Medicine will clear your head, remove the pain in side or back and restore your strength. Nothing else is so good for the stomach and bowels. At druggists' and dealers', 25c.

Unlikely.

Whale—What are you going to tell our wife when you get home?

Jonah—I don't know; I don't suppose she would believe me if I should tell her that I had been to a fish dinner.—The Bohemian.

Ask Your Druggist for Allen's Foot-Ease. "I tried ALLEN'S FOOT-EASE recently, and have just bought another supply. It has cured my corns, and the hot, burning and itching sensation in my feet which was almost unbearable, and I would not be without it now.—Mrs. W. J. Walker, Camden, N. J." Sold by all Druggists, 25c.

Deception.

"Did a man ever kiss you against your will?" "No; but some have thought they did."—Brooklyn Life.

Red, Weak, Watery, Watery Eyes Relieved by Murine Eye Remedy. Commended by Experienced Physicians. Consists of Pure Food and Drug Laws. Murine Doesn't Smart; Soothes Eye Pain. Try Murine in Your Eyes. At Druggists.

Skill to do comes of doing, knowledge comes by eyes always open and working hands, and there is no knowledge that is not power.—Emerson.

Particularly for Particular People. Souders' Vanilla Extract is produced from fine Mexican Vanilla Beans—a pure, rich concentrated flavor. All grocers. Put up in 10, 15 and 25-cent bottles.

Occasionally a man listens to an honest opinion because it is so different from his own.

CASTORIA

For Infants and Children.

The Kind You Have Always Bought

Bears the Signature of *Dr. J. C. Fitch*

of *Dr. J. C. Fitch*

In Use For Over Thirty Years

CASTORIA

THE CENTAUR COMPANY, NEW YORK CITY.

Jess Said Her Prayers. One day three-year-old Baby Jess was visiting her grandmother, who was very devout. She asked Baby Jess if her mother had taught her to say her prayers. Jess answered: "Yes, ma'am." "Whom do you pray to, dear, and ask to forgive your naughty ways?" "Sometimes I pray to mother's knees and sometimes to the bed."—Delineator.

When you wear out a suit of clothes you can generally get another, but it's different when you wear out your welcome. Do not force yourself to take offensive (and harmful) drugs—take Garfield Tea, Nature's Herb Laxative; it overcomes constipation, purifies the blood, brings health! In point of geographical elevation Madrid is the highest city of Europe. Mrs. Winslow's Soothing Syrup. For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle. There is nothing more uncertain than a sure thing.

This Trade-mark Eliminates All Uncertainty

In the purchase of paint materials, it is an absolute guarantee of purity and quality. For your own protection, see that it is on the side of every keg of white lead you buy.

THE CENTAUR COMPANY
1902 Trinity Building, New York

PIMPLES

"I tried all kinds of blood remedies which failed to do me any good, but I have found the right thing at last. My face was full of pimples and black-heads. After taking Cascarets they all left. I am continuing the use of them and recommending them to my friends. I feel fine when I rise in the morning. Hope to have a chance to recommend Cascarets." Fred C. Witten, 76 Elm St., Newark, N. J.

Pleasant, Palatable, Potent, Taste Good. Do Good. Never Sicken, Weaken or Grip. 10c, 25c, 50c. Never sold in bulk. The genuine tablet stamped C. C. C. Guaranteed to cure or your money back.

W. N. U., CLEVELAND, NO. 17-1909.

GOOD SHOW WINDOW ILLUSION

A new idea in window displays which could doubtless be used as a novelty is described in the Merchants' Record and Show Window. The construction is very simple and the illustration will show the proper setting for the display. The platform is first constructed, which should be about 12 inches high. On this platform make a frame of light lumber, as shown in Fig.

instead of the reflections of the sides. The appearance to him is that he can see all around the pedestal. The person demonstrating stands back of the mirrors and close up against the pedestal and bowl. Only the head and shoulders should be visible, which will appear to rest in the bowl.

The illustration, Fig. 2, shows a display made for millinery. In this case a young woman stood behind the

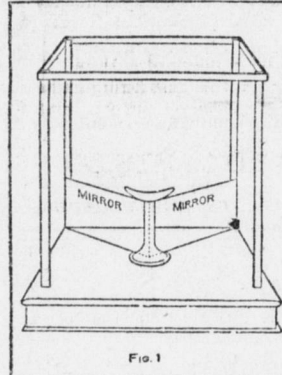


Fig. 2

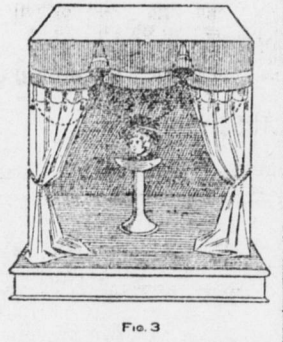


Fig. 3

1. Over the two sides and back of this frame are draped goods of some solid dark color such as deep green. In the middle is placed a pedestal, which is cut out along its entire length as shown in Fig. 2. The top is made of a large wooden bowl having a section of the back cut out to admit the form of a young man, making it appear as if the bowl were filled.

The placing of the mirrors is shown in Fig. 1. They fit into the groove in the pedestal and extend diagonally back to the two rear corners. When the mirrors are properly fitted they will reflect the two sides of the booth. To the spectator in front it seems that he is looking at the back of the booth

pedestal with a hat of one style and by having several hats lying back of the mirrors she could disappear, make a change of headgear and reappear to the mystification of the crowd in front of the window. The remainder of the show window can be made to harmonize with the covering of the booth. The illusion scheme is a good one to use on special occasions, such as during carnivals or street fairs. Its success depends upon the careful fitting of the mirrors and the manner in which the curtains are arranged. The inside of the booth should be comparatively dark and the curtains should hang straight, otherwise the scheme may be detected.

Food Which Constitutes Ideal Meal.

It must be remembered that pure starch, pure sugar, pure protein and even pure fat are practically nowhere found in a state of nature. Roughly speaking, a dietary consisting of one-fifth protein, or meat-like food; two-thirds carbohydrate, or starch and sugar foods; and, to use a hibernianism, one-eighth fat, is the proper working proportion. This of course roughly corresponds to the slice of meat, two or more slices of bread, a helping of potatoes, rice or macaroni, the vegetables, the pat of butter and the fruit, sweets, pudding or pie which the average human regards as a "square meal."—Woman's Home Companion.

Indigo No Longer Profitable.

Now that the chemical manufacture of indigo has made the natural product unprofitable, only 12 districts in Burma grow the indigo plant, and chiefly for local dyeing purposes.

Most of the enemies we make wholly overlook the fact that they assisted in the making.

Darwin's Sons.

The axiom concerning great men's sons does not hold good in the case of Darwin. Four surviving sons of his are men of eminence. Sir George Howard Darwin, K. C. B., L. D., D. Sc., is Plumian professor of astronomy and experimental philosophy at Cambridge, and has made valuable discoveries in meteorological science. Mr. Francis Darwin, who is a doctor of medicine and a distinguished bacteriologist, has been foreign secretary of the

His Idea.

Church—They say that if a human being continued to grow at the rate he does during his first year of life, he would be over 68 feet tall at the age of ten. What do you think of that?

Gotham—Why, I think a boy would have to put on long trousers pretty early in life.—Yonkers Statesman.

Stung.

"Father," inquired the lad, sharply, "what is pin money?"

"My boy," answered the parent, pointedly, slipping his hand into his pocket, "pin money is what you stick people for."—William Purple Cow.

Been There Before.

The Lawyer—The first thing we must look into—

The Client—Is my pocket. I understand that—go ahead.

Gasoline Used for Soldering.

Gasoline can be used as a soldering flux for very neat work on tin. Follow up quickly with a hot copper and no stain will show.

Royal society since 1903; he was his father's assistant at Down, and after the latter's death wrote a life of him and edited his letters. Maj. Leonard Darwin was on the staff intelligence department of the war office; he served on several scientific expeditions, and after retiring from the royal engineers sat as M. P. for Lichfield. He has written books on "Biometallism" and on "Municipal Trade." Mr. Horace Darwin is chairman of the Cambridge Scientific Instrument Company, and an ex-mayor of Cambridge.

WHAT JOY THEY BRING TO EVERY HOME

as with joyous hearts and smiling faces they romp and play—when in health—and how conducive to health the games in which they indulge, the outdoor life they enjoy, the cleanly, regular habits they should be taught to form and the wholesome diet of which they should partake. How tenderly their health should be preserved, not by constant medication, but by careful avoidance of every medicine of an injurious or objectionable nature, and if at any time a remedial agent is required, to assist nature, only those of known excellence should be used; remedies which are pure and wholesome and truly beneficial in effect, like the pleasant laxative remedy, Syrup of Figs and Elixir of Senna, manufactured by the California Fig Syrup Co. Syrup of Figs and Elixir of Senna has come into general favor in many millions of well informed families, whose estimate of its quality and excellence is based upon personal knowledge and use.

Syrup of Figs and Elixir of Senna has also met with the approval of physicians generally, because they know it is wholesome, simple and gentle in its action. We inform all reputable physicians as to the medicinal principles of Syrup of Figs and Elixir of Senna, obtained by an original method, from certain plants known to them to act most beneficially, and presented in an agreeable syrup in which the wholesome Californian blue figs are used to promote the pleasant taste; therefore it is not a secret remedy, and hence we are free to refer to all well informed physicians, who do not approve of patent medicines and never favor indiscriminate self-medication.

Please to remember and teach your children also that the genuine Syrup of Figs and Elixir of Senna always has the full name of the Company—California Fig Syrup Co.—plainly printed on the front of every package and that it is for sale in bottles of one size only. If any dealer offers any other than the regular Fifty cent size, or having printed thereon the name of any other company, do not accept it. If you fail to get the genuine you will not get its beneficial effects. Every family should always have a bottle on hand, as it is equally beneficial for the parents and the children, whenever a laxative remedy is required.

PUTNAM FADELESS DYES

Color more goods brighter and faster colors than any other dye. One 10c package colors all fibers. They dye in cold water better than any other dye. You can dye any garment without ripping apart. Write for free booklet—How to Dye, Bleach and Mix Colors. MONROE DRUG CO., Quincy, Illinois.