

INDUSTRY & MECHANICS

GRASSHOPPER BRICKS.

New Hen Food in Concentrated Form for Which the World is Indebted to Nebraska.

Grasshoppers are being put to a new use out in Nebraska. The farmers have killed incredible numbers of them by the help of a machine which is, perhaps, the most effective ever devised for the purpose. It is called a "hopperdozer," and is nothing more than a large flat pan, with a small amount of kerosene contained in a depression in the rear part of it. The contrivance, being attached to a horse, is pushed along in front of the animal as the latter is driven across the fields. Pretty nearly every grasshopper is encountered, jumps upon the pan, and is promptly suffocated by the kerosene.

This ingenious instrument has been in use for a number of years in parts of the west, but hitherto it has not occurred to the farmers to make any use of the dead grasshoppers. Most commonly they were burned, though some more enterprising agriculturists turned a portion of them to account as poultry feed. They found that the hens liked them exceedingly; for it is a fact that a grasshopper is to a hen what a canvasback duck is to a human epicure—the very choicest and most esteemed of delicacies.

Hence the idea which is now being developed on a commercial scale. The grasshoppers, after being killed by the hopperdozer, are left in wiretraps in the fields, where they are soon dried. When they have been exposed to the sun for a sufficient time to reduce them to a properly desiccated condition they are gathered up with rakes, shoveled into carts, and conveyed to a shed, where they are put into a press somewhat resembling an ordinary cheese press, and converted into solid bricks.

The bricks are shipped in quantities to poultry-raisers, who find this new kind of hen-provender most satisfactory, and they are anxious to get more of it. Apparently, it is a great encourager of egg-production.

It is not necessary to grind the bricks before feeding the stuff to the chickens, but merely to break them into pieces and soften with water.—Saturday Evening Post.

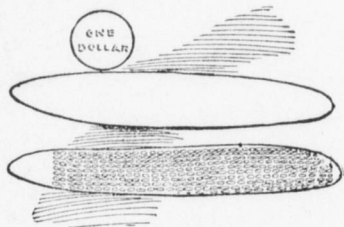
TESTING SILVER COINS.

The Comprehensive System in Vogue at the Different Mints of the United States.

Out of every fresh batch of silver dollars made at the United States mints half a dozen are sent to the treasury at Washington to be tested as samples. If they turn out to be of the requisite fineness and weight it is taken for granted that the whole edition is correct.

For the test the coin after being weighed is rolled out in a thin flat strip more than a foot in length. Then the strip is placed beneath a row of punches, which punch holes in it, so that after passing beneath the instrument it has the look of a colander.

A great many little silver disks are thus obtained, and of these a dozen



HOW DOLLARS ARE TESTED.

or so are taken and assayed, to find out how much silver they contain. Being obtained from various parts of the coin, they represent fairly the average fineness of the dollar throughout. If the weight is too little, beyond a very tiny fraction, the whole batch of coins must be melted and made over again, and the same thing must be done if the fineness is not up to standard. Otherwise the assayer indorses the mintage and the dollars.

Wink Measured by Science.

A German scientist has given another proof of the painstaking nature of his race in obtaining perfect accuracy and the time that is occupied by a wink. He used a special photographic apparatus and fixed a piece of white paper on the edge of the eyelid for a mark. He found that the lid descends quickly and rests a little at the bottom movement. Then it rises slower than it rises slower than it fell. The mean duration of the downward movement was .075 to .091 of a second. The time from when the eye rested till it closed varied from .15 to .17 of a second. In rising the lid took .17 of a second. The wink was completed in .4 of a second.

The Trolley in Egypt.

Tourists in Egypt can now take a trolley car in the main street of Cairo direct to the pyramids. In a short time a line will be built equipped with American cars to run from the ocean front at Tiraous to the Parthenon at Athens.

Electric Lamps for Dogs.

A novel idea for sportsmen seems to be of Portuguese origin. An electric lamp is placed on the collar of the hunting dog, and this frightens foxes and badgers from their burrows when the dog enters.

HAPPY COMBINATION.

Western Inventor Has Just Designed a Baby Carriage Combined with a Bicycle.

From Arizona comes the up-to-date machine shown in the picture below, the inventor being Fred Genzlinger, of Phoenix. Of course, it will not prevent the policeman and nurse from holding their usual conversations in the park, but otherwise it is an improvement over the old style of baby carriage. The propelling part of the perambulator is similar to a bicycle, while the coach proper is pivoted at the forward end of the frame in such a manner that it can be easily turned by the steering wheel and chain attached to the handle-bar. To relieve the main wheels of a portion of the weight there is a small trailer at the rear of the coach, and this wheel also serves as a rest when the carriage is detached



BICYCLE BABY CART.

from the frame of the wheel for walking. The seat and handle-bar have the usual adjustments, and it should be a pleasure to the nurse to take the baby riding in this speedy machine, while it goes without saying that the child once taking a ride in this carriage will prefer it to all others.—Louisville Courier-Journal.

NEW HEADACHE CURE.

English Physician Recommends Use of the Seton as Infallible and Permanent.

Sick headaches, the bogy of the modern society woman and often the greatest trouble of the business man, is to lose its terrors, according to an English physician when a remedy now used by him becomes universal. This medical man, a Dr. Whitehead, has returned to the practice of old days, and reintroduced the seton, and by its use claims that he has successfully treated every bad headache that has come into his hands.

Simply described the seton consists of a twist of silk, of small threads or a few horsehairs, which by a needle is drawn through the skin so as to keep a hole in the skin open. In the cure of headaches Dr. Whitehead draws this seton through the skin at the base of the neck. How this cures he does not explain, but says that for 25 years past he has not seen a headache case that could not be cured by it. In one case a lady had for years been affected by severe headaches that left her prostrated for many hours after they had passed the climax. A seton was put in three months ago, and since then she has had no attack. The seton, he says, should be left in place three months. English authorities say "this means should not be resorted to unless the pain from the headache is absolutely unbearable, as otherwise the remedy will prove worse than the disease."

The causes for sick headache are many. Often it is due to the eyes, and a use of proper spectacles will prevent it. Sometimes it can be stopped by the use of a stimulant, as a cup of black coffee at the moment when the headache is beginning to manifest itself. Nearly every one who is subjected to these attacks knows of one or more causes that will bring them on and sometimes is able to avoid this, but sometimes the cause is unavoidable even when known.

Of all the cures that have been suggested the greatest confidence is placed in caffeine and in antipyrine. Antipyrine is taken in powder in doses of one gramme; two, three, or four such doses are given an adult in the first two hours of the attack. When given in time this drug calms the headache even when it does not entirely cure it. But when taken repeatedly the effect of the drug wanes. The system becomes habituated to it, and it no longer gives relief. Then as a substitute antifebrine or acetanilide may be given, or oxaline or phenacetine.

Among the many other remedies which help in special cases are salicylate of soda, acetonite, bromide of potassium, chloral and sulfonal. Acetonite is a dangerous medicine, however, and the others are of little use—the soda least of all.

In general, however, sick headache is the result of a generally bad condition of the body or of a bad condition in some portion, and a general medical treatment is desirable to remove the cause and thus prevent a recurrence of the attack. Anemic and chlorotic subjects should take ferruginous medicines and should undergo hydropathic treatment.

Self-Charging Automobile.

It is reported that an automobile battery has been evolved in England which threatens a revolution in horseless travel. In going down hill the motor is reversed and the battery recharges itself, so that it is much stronger at the bottom than at the top. A record trip of over 94 miles was made on an American built wagon equipped with this motor and battery, and no stop for recharging.

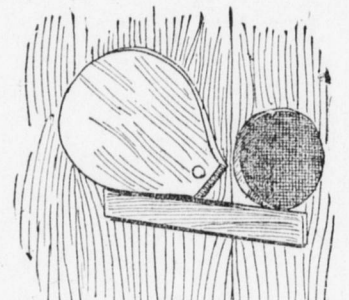


CHICKEN COOP DOOR.

So Simple in Construction That Any Farmer Handy with Tools Can Improve One.

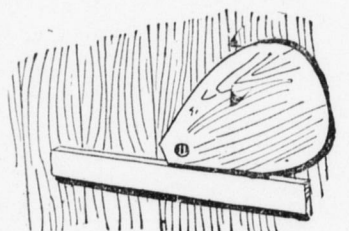
Experience is necessary in planning and making preparations for winter. It is not an easy matter for inexperienced people to conceive an idea of a good door for their chicken coops, and we give here a drawing of one that we found George Moore, of Maine, using, and which he said had given perfect satisfaction.

The arrangement was so simple in construction that any farmer who



CHICKEN COOP DOOR OPEN.

understood the use of tools at all could attach it to a coop or box to be used for a coop with but little trouble. The door, or entrance, should be sawed out perfectly round; ten inches would be large enough, while the door or cover to the entrance should be one inch larger with one side extended so that the cover will be pear-shaped. The pointed side should have a quarter-inch hole bored through it, the door working on a bolt for a hinge. This style of hinge will not rust or break like the



CHICKEN COOP DOOR CLOSED.

ordinary hinge, and the door is not swinging open and shut, but remains where the poultryman leaves it. In a cold climate, where ice and snow will bother, four nails should be driven nearly out of sight on top of the cleat, on which the door may rest instead of flat down. This will prevent freezing down.

Mr. Moore also uses two doors, one inside and one outside the coop, both revolving on the same bolt. It would be well for those wishing to make a cheap and convenient chicken coop door to try the one herein described.—E. F. Barry, in Ohio Farmer.

HELPING WEAK COLONIES.

How to Do Away with One of the Direct Causes of the So-Called Spring Dwindling.

When the fall flow of nectar is light the bees discontinue brood rearing early, and consequently go into winter quarters very light in number, and rather old to insure successful wintering. This is one of the direct causes of the so-called spring dwindling. It must be prevented by late brooding.

Those who leave their bees to starve in a poor season are not deserving of honey in a good one.

To obtain the best results from our bees they should be fed to stimulate brood rearing, so that our colonies will be very strong at first bloom. To do this we must begin to feed as early as the weather will permit the bees to fly at least once a week. Some mild day soon after removing them from the cellar, all colonies should be closed on what combs they will cover with sufficient stores to last two or three weeks, placing the unoccupied combs in the outside of the follower.

When feeding time arrives prepare your feed, either a poor grade of honey, maple sirup, or better still granulated sugar, which should be about the consistency of newly gathered honey. If sugar is used the proportion is equal parts of sugar and water. It may be fed without heating, but I prefer to bring it to a seal and to put it in the combs and feed while milk warm. Take the combs to be used, uncapping what honey they contain, and fill the empty portion with the sirup. Rest the comb over the tank in a slanting position with the top bar up and dip the sirup on it with a dipper having a perforated bottom. Place one comb next to the cluster once a week, removing the one given last.—Orange Judd Farmer.

Flaxseed Crop for 1901

There is a consensus of opinion among commercial authorities that the 1901 flaxseed crop of the United States will prove to be the largest ever produced in this country. Early in the season considerable divergence of opinion was expressed both as to acreage and yield, and estimates of production ranged from about 20,000,000 to 32,000,000 bushels. Lately, however, the range has been narrowed and now there is practical unanimity that the crop will amount to between 22,000,000 and 26,500,000 bushels.

HE CAUGHT THE PRINCESS.

Although Disguised She Was Caught Off Her Guard by the Monk and Discovers.

An entertaining story comes from the French Alps of Dauphiny, relating the futile efforts of the Princess of Croy, who desired to enter the monastery of the Grande Chartreuse, a habitation from which women visitors are rigidly excluded, says an exchange.

The story runs that the princess dressed herself in boy's clothes, and accompanied her husband to the institution. The gates were opened to them, and the prince sent his card to the father superior, with a line to the effect that he was accompanied by a friend.

Just as they were about to make the round of the building, the word was received that the father would like to see the prince and "his friend." Going upstairs, they were received by the smiling monk, who cordially invited them to join him in an appetizing luncheon. The princess endeavored to make the best of the situation, but she was not put any the more at her ease by the fact that the monk kept gazing sharply at her.

At last he exclaimed suddenly: "Catch it, young man!" at the same time throwing at her a large pear. The princess was startled and thrown completely off her guard, made a feminine motion to grab up her skirt, the absence of which she overlooked in her confusion.

Then the father stopped smiling, and said, with great gravity: "I beg your pardon, madam, but ladies are not allowed in the monastery. I must ask you to wait outside until the prince has finished his inspection."

And outside she had to go, the reverend father bowing her from the room with most elaborate politeness.

Hunting Stories.

Once he was shooting where his host happened to have killed a boy and a keeper in the same season, and he asked a beater whether his master felt the matter very much. The answer was: "Well, sir, he didn't care much about the boy. He grieved his mother five pounds. But he were very vexed about the man. He didn't go out shooten for a whole week." This in Norfolk was considered an evidence of the climax of human emotion. A Lord Cholmondeley of the past once incautiously asked the mayor and other notabilities of King's Lynn to enjoy a day's shooting. They got little sport till they approached the hall, where they blazed away freely, but they were somewhat taken aback when, at the banquet which followed, a horrified servant brought the appalling intelligence that "the Lynn gentlemen had shot all her ladyship's tame partridges."—London Post.

How It Affected Him.

Cholly—Does your father say anything about me?
Edith—Dear me, yes! Mamma says he'll never get over his hoarseness unless he stops hollering every time he speaks about you!—Puck.

\$200 a Month

To Agents selling our Co-operative Mercantile Contracts (Shares). Territory allotted January 1st, 1902. We want bright insurance men or Bankers. Fidelity Assurty Company, 377-379 Broadway, New York City.

The change from a job to a situation is not always appreciated by the incumbent; as, for instance, when a political job becomes an embarrassing situation.—Puck.

A Dose in Time Saves Nine of Hale's Honey of Horehound and Tar for Colds. Pike's Toothache Drops Cure in one minute.

Every man hides his deformity.—Athens Globe.

The Dietetic and Hygienic Gazette.

Walter Baker & Co., of Dorchester, Mass., U. S. A., have given years of study to the skillful preparation of cocoa and chocolate, and have devised machinery and systems peculiar to their methods of treatment, whereby the purity, palatability, and highest nutrient characteristics are retained.

Their preparations are known the world over and have received the highest indorsements from the medical practitioner, the nurse, and the intelligent housekeeper and caterer.

Then He Gets Noisy.

Mrs. Biggs—Your husband isn't much for show. He always dresses very quietly.
Mrs. Diggs—Huh! You ought to hear him sometimes when his collar button rolls under the dresser.—Chicago Daily News.

Persons contemplating a journey East or West should be careful that the rates paid for their transportation do not exceed those charged by the Nickel Plate Road.

This company always offers lowest rates and the service is efficient. Careful attention is given to the wants of all first and second class passengers by uniformed colored attendants. The dining car service of the Nickel Plate Road is above criticism and enables the traveler to obtain meals at from thirty-five (35) cents to \$1.00 but no higher.

The Pullman service is the usual high grade standard. Semi-weekly transcontinental tourist cars ply between Atlantic and Pacific Coasts. Confer with nearest agent of the Nickel Plate Road.

A Change of Base.

Yeast—I see a Philadelphia composer has written a quickstep.
Crimsonbeak—Yes, and I hear they are using it in Chicago for a funeral march.—Yonkers Statesman.

Best for the Bowels.

No matter what ails you, headache to a cancer, you will never get well until your bowels are put right. Cascarets help nature, cure you without a gripe or pain, produce easy, natural movements, cost you just 10 cents to start getting your health back. Cascarets Candy Cathartic, the genuine, put up in metal boxes, every tablet has C. C. C. stamped on it. Beware of imitations.

Cautious.

Short—Do you believe that a fellow feeling makes us wondrous kind?
Long—It all depends. What are you feeling for now?—Chicago Daily News.

Travelers Call It Blessed.

Of all the blessings that a railroad company can confer upon a long-suffering public, none is greater than smokeless coals. The Lackawanna Railroad burns it! for which all travelers call that road blessed. No smoke! no dust. Its policy may well inspire the gratitude and patronage of a grateful and appreciative public.—Outing.

Flirtly—"No, I've given up calling on Miss Roxley." Jiggs—"Ah! I suppose her father had a hand in that?" Flirtly—"Well—er—not a hand, exactly."—Philadelphia Press.

On Dec. 3rd and 17th the Norfolk & Western Ry. will sell round trip tickets from Cincinnati and Columbus to points in the Virginia and Carolinas at greatly reduced rates.

For all information as to rates, address Allen Hall, D. P. A., 45 E. 4th St., Cincinnati.

There are few crooked things that a pull which is long enough and strong enough and earnest enough will not straighten out.—Wellspring.

Stops the Cough and Works

On the Cold. Laxative Bromo Quinine Tablets. Price 25c.

"Don't you know you oughtn't to smoke, my lad?" "So me physician tells me, but it's the only way I can get relief from business worries."—Indianapolis News.

Piso's Cure for Consumption is an infallible medicine for coughs and colds.—N. W. Samuel, Ocean Grove, N. J., Feb. 17, 1900.

It is not hard to let your moderation be known to all men, so far as the virtues are concerned.—Rani's Horn.

Half an hour is all the time required to dye with PUTNAM FADELESS DYES.

The hypocrite prays cream and acts skim milk.—Chicago Daily News.

A square deal.—The sale of a city block.—Philadelphia Bulletin.



Finds Very Ancient Coin.

William E. Davis, a veteran of the Forty-second Indiana infantry, living at Flora, Ill., has a Roman coin which he found while campaigning in the Philippines and which numismatists claim is more than 1,600 years old. Authorities say the coin was struck by the Emperor Maximinus in 236 A. D. The coin is in an excellent state of preservation and the inscriptions are legible. It is the size of an American dollar and is made of bronze. The obverse bears the head of the emperor and the inscription reads, "Maximinus Pius Augustus Germanicus," and the reverse has the figure of a man bearing aloft an olive branch and bears the words, "Pax Augusti." It is supposed the coin found its way from Spain to the Philippines years ago and was lost in Luzon.

Mythology in Kansas.

"Some one in Kansas proposed that a statue of Ceres be placed on the dome of the new statehouse, but now he wishes he hadn't made the proposition," remarked the exchange editor, as he laid down a Kansas paper.

"What's the objection?" asked the telegraph editor.
"It is urged that no one in Kansas knows the lady, and that she probably was an actress, anyhow. It is the opinion that the figure of Chief Fewclothes, an Indian, would be more appropriate as an ornament to the dome of the Kansas statehouse."

"Well, I should think that a statue of Chief Fewclothes would be a nude departure, at any rate."—Pittsburg Gazette.

Had Him There.

"How crazy you women act over the 'Woman's page!' said Mr. Posenby, in a tone of withering sarcasm. "I wonder why the papers don't have a 'Man's page,' too?"

"They do," Mrs. Posenby replied.
"I've never seen one."

"Oh, yes, you have. It's the page devoted to prize fighting and horse racing and other occupations of that sort."—Youth's Companion.

Her Circulating Medium.

"She's a very cautious woman. Especially about gossip. No woman ever heard her retail any scandal."

"But I am told that stories confided to her in secrecy do get out somehow."

"Yes, I know. You see, she tells them all to her husband."—Cleveland Plain Dealer.

Hoped They Would Run Their Course.

Mrs. Vernon Brown—Why on earth don't you get your husband to cut off his whiskers?

Mrs. Smiffian Jones—I wouldn't have him do it for the world. I want him to let them grow and get them all out of his system.—Stray Stories.

Syrup of Figs



The Sale Annually of Millions of Bottles

of Syrup of Figs and the universal satisfaction which it has given attest the fact that it possesses the qualities which commend it to public favor. With the diffusion of knowledge of what a laxative should be and a general understanding of the fact that it should have a truly laxative and beneficial effect and be wholly free from every objectionable quality, or substance, the large and growing demand for

Syrup of Figs

shows that it is destined to supplant the old-time cathartics which were generally injurious and usually disagreeable as well. In Syrup of Figs one finds a true laxative, simple and pleasant to the taste, gentle in its action and beneficial in effect. In the process of manufacture figs are used as they are pleasant to the taste, but the medicinal virtues of Syrup of Figs are obtained from an excellent combination of plants known to be medicinally laxative and to act most beneficially. In order

To Get Its Beneficial Effect

Buy the Genuine—Manufactured by the

CALIFORNIA FIG SYRUP CO.

San Francisco, Cal.
Louisville, Ky. New York, N.Y.
For sale by all druggists Price fifty cents per bottle.