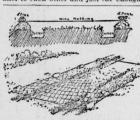
AGRICULTURAL.

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Protecting Young Chicks From Hawks. Where hawks abound, young chicks must be closely guarded. If shut up closely in pens, growth will be greatly retarded. A good plan under such circumstances is shown in the accom-panying cut. Plow two furrows par-allel to each other and just far enough



WIRE NETTING TO PROTECT YOUNG CHIC. WIRE XETTING 70 PROTECT FOUNG CHICK apart so that the distance from the out-side of each shall be just six fect. Make the furrows 150 fect long. Stretch a roll of six-foot wire netting along the furrows, fastening the edges down with stones. This gives a long run on both grass ground and plowed land for the chicks, and hawks cannot molest them. The coop can be set at one end, the other end being stopped with sod. The plan is shown in the cut.—W. D. Maine, in New England Eomestead.

Treating a Badly Drained Sott. Drainage of a heavy, thick soil, in-clined to be hilly and uneven, is some-ting that is not always an easy mat-ter, but if one has such a farm, the sooner he begins to make the improve-ment the better. It is waste of time and money to attempt farming on a field that demands drainage badly, and it is wisdom to abandon the farm en-tirely or begin to drain fit. I have field that demands drainage badly, and it is wisdom to abandon the farm en-tirely or begin to drain it. I have of drainage with stones shat it may be worth recording. The soil was at first picked off and piled in one part of the field. A few stones would vork up to the surface every spring, and these I would also pick up. In the course of a few seasons I had a fairly good soil without any stones to annoy me. But the drainage was bad. The water would settle in the soil and on the sur-face in the spring, and the land was always late in getting into tillable condition. If was cold and wet when most other soils were warm and dry. This made plowing late, or if done early a muddy and uppleasant task. The land sloped down in one general direction, but there were numerous depressions which collected the water all along.

direction, but there were numerous depressions which collected the water all along. I decided to drain. I planned the whole thing out on paper, noting the general direction of the slopes. I could not afford tiles or any expensive ma-terial, and so I decided to use the pile of stone. I plowed deep ditches across the land, making them all run parallel with the main slope, and cutting cross ditches in the opposite direction. In this way the whole soil of the field was drained so that the surplus water would run into main ditches and thus down to swampy levels. Then I pro-ceeded to fill in the ditches with the stones, using the large ones first, and placing them so that the largets possi-ble gances would be left between. Cn top of these I packed the smaller ones, and on top of them placed a layer of straw and cornstalks. Then I topped it off with six inches of soil, bringing the surface up to within a few inches of the general level of the field. Now this drainage works perfectly. The soil is never clogged with surplus of the general reverse the line and the row with a drainage works perfectly. The soil is never clogged with surplus water. I do not plow over the draina, but I have permitted a sod of grass to form on them to mark their course. The water following the line of ditches drains off below the surface, and there is a steady outpour in the main ditch in rainy weather. The cost was only that of my own personal labor.—C. W. Minners, in American Cultivator.

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Minners, in American Cultivator. Buying or Henting a Farm. It doesn't make any difference whether a man has small means or can pay cash, the best policy is to hy. Every farmer is ambitious. He due to a fair way to have wants to own a farm-to have some place to call home, even if it is only forty acres. The expenses are about amounts to as much, and often more, than the taxes, interest and repairs, The renter has more money to put into stock, but his possessions must accommedate themselves to the farm he rents, and this is often inconvenient. Or he must build extra fence, which

is expensive, as the fence is useless when he moves elsewhere. Usually the renter exchanges crops and stock for money when he moves, which is every year or two. Of course he puts the money in the bank and is going to save it until he can pay cash for a farm. During the year he sees some-thing that he is very anxious to own, and as the money is easy to get, it goes. Of course he is going to have a better crop this year, and will make more money on his hogs, and can easily re-place the money, and more, too. It is just as easy to use it all as it is to use a little, and before the end of the year it is all gone. The buyer cannot do this. When he sells a crop, or a bunch of hogs, and pays the money on a farm, it is there to stay. He must deny himself many things, but he who satisfies every want will not have his labors crowned with success. Unceasing toil is the parent of success. It only takes about half the year to raise the crop. Dur-ing the other half the renter does not do enough to pay his expenses. He

ing the other half the renter does not do enough to pay his expenses. He makes as much as any farmer while he works, but the buyer works while the renter is idle. The weeds need cutting, the fences need thing, the fer-tillzers needs scattering, the ditches need repairing, and many other things need to be done, so that the buyer is busy the entire year. Perhaps he has less amusement, but amusement is expensive.

less anusement, but anusement is expensive. A farm should have a good orchard and a garden of shrubbery. Neither trees nor shrubg are costly, but the renter does not put out new ones, nor take care of those already on the farm. The renier leads an anness, un-settled life. He has no definite aim in view, and works in a haphazard, hit view happa a state of the secret of success lies in having a definite aim and the other half in unceasing toil.—G. I. Johnson, in New York Tribune.

An Excellent Smokehouse

An Excellent Smokehouse. A good smokehouse on any farm is a desirable thing to have, the great difference between the price of home grown pork and store bacon making it a paying job for every farmer to smoke his own meat, and especially for home consumption. It is too ex-pensive, however, to have a well ar-nunged smokehouse, as generally con-structed, in all cases, and hence the reason for presenting the novel at-fair shown in the accompanying illus-tration. As can be seen, it consists of a box of such a size as is desired, only it should be four feet high, and is usually more convenient it three by five feet square. The meat is inserted through the loss in twenty inches which, and hinged at the lower part so as to let down from the top. Hooks should be four to it, and staples driven into takened to it, and staples driven into the sides and top of the box, as indi-tated. Dot hold the door in place when closed.

cated, to hold the door in place when closed. For hanging the meat bore holes through the top of the box and far enough apart so that the pieces will not touch when hung. Pieces of wire work best for the purpose, one end of which having been run through the meat should be twisted together with the other so as to form a loop, and this inserted up through the augur hole, where a stick then pushed through the loop will hold the ham secure. The device should be built on slop-ing ground, provided such is available, for then the fire that is to furnish the smoke can, be placed at the proper

smoke can, be placed at the proper distance from the box and yet have the smoke readily conducted to it by m of several joints of old stovepipe. The



hole for the fireplace should be about

hole for the fireplace should be about two feet deep and at least six feet away from the box. The trench for the stovepipe should not be over one-half as deep, and dug so that the upper end of the stovepipe will come out un-der the box near the centre; an old clow joint makes this very easy to do. The pipe, of course, should be cov-ered with the loose dirt thrown out, and the sides of the box banked up with earth, its cracks even being calked as much as possible, for notwithstand-ing all the precardions, enough smoke will still escape to insure the neces-sary amount of draugh. When the affair is completed and the hams are all hung a fire should be kindled in an old kettle or pan, using corn cobs for fuel, since these make the best material, not to mention that they are easy to handle and will last long. As soon as a good smoke has been started the "furnace" should be some first-class bacon. Several hun-ed good first-class bacon. Several hun-d at time, and, let alone the economy of this, the device is of inestimable value as an sfeguard against fire. Unlike some kinds of smokehouses, so-called, it harbors no danger whatever. If rightly made, of burning a single build-ting on the farm.-New York Tribune.

ENGINEERS' FALSE ALARMS ent From V

Why Things Look Different They Are. "When a man's sitting in an engin coh, looking up he track with a con-stant watch for danger a burden on his mind," said an engineer, "things sometimes look different from what they really are. This is especially true if after long service his eyes begin to be a little affected.

sometimes look different from what they really are. This is especially true if after long service his eyes begin to be a little affected. "I used to know an old engineer who was one of the most careful men on the road. In fact, he was always worrled and fear of an accident got to be al-most a mania with him. One day he was pulling a long freight down a pret-ty fair grade when he suddenly clapped on the air and gave the 'highball' with the whistle, sending the brakemen out over the train setting the hand brakes as fast as they could. 'Finally they brought the train to a stop, and every-body ran up to see what was the mat-ter. Among the men who came up was a red-shirted section man. When the fellow got close, Jack, the engi-meer, began to rip out the biggest string of expletives I ever heard. He dressed up and down any man who would wear a red shirt while working on the section, for Jack had seen that shirt and thought it was a red flag and stopped the train." "I had-an experience myself not long ago," spoke up another engineer. "It was since the new electric headlights were put in. You know how they look coming up the track. They're so bright you can't see anything else, and it's hard to tell whether they are moving or not. I was running a freight, and had a pretiy heavy train. We were coming around a curve just before making a sliding to pass another train, when one of those electric headlights flashed on me. I thought it was all over with me, but I stopped to put on the brakes and reverse, and king on just a minute in the hope of getting the train stopped before I jumped. The started to jump I looked again. I dis-covered then that the light didit's seen to be any nearer. I investigated, and found that the other train was at a stand still waiting for me at the switch."—Sait Lake Herald.

WORDS OF WISDOM.

No strength without struggle. Cruelty is one of the marks of cow ardice.

People are not reclaimed by calling them names

Brave hearts break out their own opportunities. Breadth of outlook depends on ele-

vation of life.

Policies make good tools when forged out of principle. The occupation of the hand helps to garrison the heart.

It is well to have your fuel before you buy your kettle. Our thoughts are the pigment with which we color life.

Time may be money, but money is neither time nor eternity. The truth is found only by those who are willing to lose their theories.

The hands will not point the right hours without the mainspring of right motives

Better to suffer for being ahead of your times than to be lost for being behind them.—Ram's Horn.

Wouldn't stand For It. "I hardly think my wife sees the joke yet." said Brown, with a smile, "and I am also inclined to think that she was deliberately trying to create a false impression, to which I plead guilty.

she was deliberately trying to create a false impression, to which I plead guilty. "One night last week I though 1 heard some one prowling about the house, and as there have been a num-ber of houses broken into lately, I con-cluded that the noise was made by burglars. As I sat up in my bed lis-tening I chanced to glance into the next room, the door of our bedroom being open, and there stood a sure-enough burglar examining our silverware. With this startling discovery came the chilling thought that I hadn't such a thing as a firearm in the house. But I determined to run a biuff, so turning to my wife I said in a loud voice: " "Where's my revolver?" "John, she answered in a voice equally as loud, there isn't such a thing in the house, and you know it? "Detroit Freé Press.

Colder Than Liquid Air.

Colder Than Liquid Air. Dr. Arsene d'Arsonval, a member of the French Academy of Sciences, pro-poses to announce his discovery of a method of extracting from ordinary petroleum oil a liquid absolutely un-freezable at a temperature of 205 de-meson below zero, thus beging the

freezable at a temperature of 205 de-grees below zero, thus beating the record for unfreezability hitherto held by liquid air. According to Dr. d'Arsonval, the new "petroleum ether" is destined to be of the greatest importance to scien-tists, especially in chemical research, permitting the construction of ther-mometers of a precision not hitherto attained. attained.

In his forthcoming communication Dr. d'Arsonval will demonstrate other valuable scientific uses of the new disvaluable scientific uses of the new dis-covery. One of the doctor's collabora-tors says that D'Arsonval is on the point of succeeding in experiments which aim at the use of petroleum ether for cooling the atmosphere of houses during the summer, a project which exceeding cheapness renders practicable.

Longevity. The improvements in the last two centuries in surgical and medical knowledge, sanitation, hygiene and the other arts of wholesome living have naturally tended to prolong life.-Bal

timore Sun:

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Some wise men don't get so much credit or wiedom as some foolish men who are

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In China the year begins in Feb-ruary.

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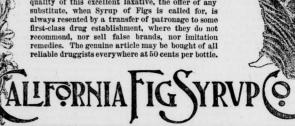
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Nany of the ills from which twomen suffer are of a transient nature and do not come from any organic trouble and it is pleasant to know that they yield so promptly to the beneficial effects of Syrup of Figs, but when anything more than a laxative is needed it is best to consult the family physician and to avoid the old-time catharties and loudly advertised nos-trums of the present day. When one needs only to remove the strain, the torpor, the congestion, or similar ills, which attend upon a constipated condi-tion of the system, use the true and gentle remedy— Syrup of Figs—and endoy freedom from the depres-sion, the aches and pains, colds and headaches, which are due to inactivity of the bowels. Only those who buy the gromine Syrup of Figs can hope to get its beneficial effects and as a guar-antee of the occulence of the remedy the full name of the company—California Fig Syrup Co.—is printed on the front of every package and without it any preparation offered as Syrup of Figs is fraud-ulent and should be declined. To those who know the quality of this excellent of the synup of Figs is fraud-ulent and should be devention. Many of the ills from which women suffer are of

quality of this excellent laxative, the offer of any substitute, when Syrup of Figs is called for, is always resented by a transfer of patronage to some first-class drug establishment, where they do not recommend, nor sell false brands, nor imitation remedies. The genuine article may be bought of all





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