graph." This is an extremely sensitive instrument, fixed on a rigid concrete bed, which registers automatically the condition of the heart. It is of incalculable value in the diagnosis of heart diseases, and its use has saved thousands of wounded soldiers whose cases would otherwise have been insoluble.

Electrical apparatus has become of great importance owing to the curious nervous diseases produced shell fire. A writer in describing a Red Cross hospital, which makes a specialty of electral treatment, gives a striking picture of miracles effected in this way.

"Here were collected together," he states, "in addition to mechanical apparatus for muscles and nerves and a wonderful vibrator, a number of instruments, many of the most costly kinds, for galvanism, faradism, ionic medication, and so on." To the average laymen these are little more than scientific words; but to see them in action was men these are little more than scientific words; but to see them in action was almost a conjuring show. A man was sitting there whose right arm was completely paralyzed owing to a bullet wound which had cut through nerve muscle. So far as his own will was concerned that hand was dead, and so it would have remained but for this miracle of science. With his left hand he gently presses a button-pad of a he gently presses a button-pad of a machine against a certain spot in his right forearm, and lo, all the lifeless the wounded man sits there for the specified time watching the activity of his own fingers at play independently of him. He cannot make them move or stop their movement except through the machine; but the exercise is doing his masterless nerves and mustles good. They are growing stronger, and soon he will have the perfect use of his hand again. The value of adequate scientific equipment in a hospital is undoubted. The Red Cross cannot have too many resources to meet its needs in this respect.

De Brosa, who was armed with three reolevers, carried nearly two hundred cartridges, a bag of black powder, and wore two suits of clothes, walked up behind the messengers as they were to ship the money out of town, and opened fire, then grabbed the money and ran, followed by Ortemar, who shot him down. fingers move strongly up and down With a smile of contented amusement

A Talk With the Boys.

Remember, my son, that you have to work. Whether you handle a pick or a pen, a wheelbarrow or a set of books, digging ditches or editing a paper, ringing an auction bell or writing funny things, you must work. If you look around you see the men who are most able to live the rest of their lives without work are the men who worked the hardest

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The Swedish government has issued an order that German st bmarines must not enter her waters on any pretext.

Mrs. David McOuatt, mother of Mrs. Fleetwood-Millar, of this village, died at her bome in Dalhousie yesterday evening, as the result of a paralytic

stroke.

Mr. James A. Perguson, of Drummond Centre, who was up before Judge Scott, Perth, last Thursday on a criminal charge, was honorably acquitted. The evidence completed exonerated Mr. Ferguson from which he was accused.

Mr. J. G. Rothwell, eldest son of Mr. and Mrs. Thos. A. Rothwell, Ferguson Falls, who has been employed in the C.P.R. freight office, Ottawa, for some time, resigned his position there and has enlisted with the 32nd Buttery now training at Kingston for overseas service.

Rev. J. C. McLeod returned home of Saturday from a fortnight's visit with his father at Glace Bay, N.S.

As we go to press the news comes in of the death of Mrs. Finlay Gunn of Argyle St. She passed away this fore-

A son of Dalhousie, who arrived at the sere and yellow leaf, passed away to his reward last Friday in the person of Robert Barrie. He was in his 74th

Bereavement has fallen in Lanark again and one of our homes feels the keenness that comes of the loss of neer and dear. Mr. Wm. H. Bond, of Dris-VALUE OF SCIENTIFIC EQUIPMENT.

When the war is over Red Cross surgeons will be able to publish records of surgical operations which will seem to the incredulous as extravagant fiction. Seeing though we do, in an age of great scientific achievements, few of us have any notion of the marvels which the modern surgeon can perform when he has all the tools of his trade.

Even the surgeon can do nothing with some of the terrible wounds which modern weapons of war inflict. None the less an incalculable number of wounded soldiers have been saved for further human usefulness, thanks to the scientific equipment which the Red Cross has been able to instal in military hospitals.

A writer recently speaks of the supreme inaportance of a certain hospital which contains a very rare and unique instrument, called the "Electro Cardiograph." This is an extremely sensitive instrument, fixed on a rigid concrete bed, which registers automatically the condition of the heart. It is of incalculable value in the diagnosis of heart diseases, and its use has saved thousands

Deceased was a native of Kent, England born there 74 years ago.

While working on the roof of Car negie library, Ottawa John Lees, em ployed by MacFarlane and Douglass slipped and fell headlong to the ground subtaining a fracture at the base of the skull and other injuries to which he succumbed. The injured man was rushed to St. Luke's hospital but died half an hour later. Lees was just 28 years of age. He was married. He was a native of Leith, Scotland, where his father still lives.

New York, Dec. 4.-Alan Gardner, New York, Dec. 4.—Alan Gardner, a bank messenger, was fatally shot by George De Brosa, who in turn was dangerously wounded by Walter F. Orteman, another messenger in a sensational attempt by De Brosa to steal a bag containing \$4,000, on the mezzanine floor of the Fourteenth St. subway station during the rush hours laje yesterday. The messengers were employees of the Bank of the Metropolis in Union Square, near the scene of the hold-up. De Brosa, who was armed with three revolvers, carried nearly two hundred

The prize list of the Ottawa Winter Fair, which has just been received from the press, shows a decided increase over previous years in amount of prize money offered, and also in classifications. classification for all classes of live stock and poultry has been increased. The Eastern Ontario Seed Fair has also been combined with the Winter Fair, and embraces a complete classification for all embraces a complete classification for all kinds of grain, grass, clover seed and potatoes. The classes for grades in connection with the various kinds of live stock has been considerably increased. The grade animal is undoubtedly the best suited for the average farmer, and a very high percentage of our meat and dairy product supply as produced by grade animals. The grade classes have, therefore, been given more recognition than previously in the Ottawa Winter Fair prize list. The pure bred classes have not been lost sight of in this recognition of the grades, as the pure out work are the men who worked the hardest.

Don't be afraid of killing yourself with overwork, It is beyond your power to do that on the sunny side of thirty. They die sometimes, but it is because they leave work at 6 p.m. and don't get home till midnight. It is the interval that kills, iny son. The work gives you an appetite for your meals; it lends solidity to your slumbers; it gives a perfect and graceful appreciation of a holiday.

There are young men who do not work, but the world is not proud of them. It does not even know their names; it simply speaks of them as "Old So and So's boys." Nobody likes them. The great busy world does not know that they are there. So find out what you want to be and do, and take off your coat and do it. The busier you are, the less harm you will be apt to get into it, the sweeter will be your sleep, the brighter and happier your sleep, the world be with you.—Robert J. Burdette.

Children Cry

Children Cry FOR FLETCHER'S CASTORIA

FARMERS' DISTILLERIES.

For several years there has been in force a law that is supposed to favor the manufacture of denatured alcohol by farmers, yet we find no successful farmers' alcohol plants. In Germany, where this industry has developed, considerable encouragement has been given by the government; there has been long continued experimentation, and a system is in operation for the return of the mash from the alcohol distilleries for the farmers' use as feed for cattle.

On American farms there is far

on American farms there is far less need for a method of using byproducts, and our farmers have not been forced to practice such close economies as have the

Co-operation in the ownership of distilleries is necessary, and they can be expected to succeed only in localities where large acreages of particular crops are grown—such as the potato belts of Maine and Minnesota, the fruit growing sections, and in certain other localities where there are large quantities of waste vege-tables that should be conserved. The denatured alcohol boom appears to resemble some others that were based upon superficial observation in Europe. The at-tempt to graft these ideas on American agriculture has failed because of too little regard for our own conditions and require-ments.—Country Gentleman.

DISEASES OF NURSERY STOCK.

Losses Caused by Various Plant Ail ments Are Sometimes Heavy.

[Prepared by New York State College of Agriculture.] The losses in nursery stock caused by various plant diseases are sometimes very heavy. Fire blight, for example will destroy all the stock attacked un-less it is eradicated by cutting out the affected parts of the plants. Some other diseases affect the leaves only, and by causing them to fall prematurely pre-vent the normal growth and development of the plants. Methods of contro which are effective on larger trees and bushes cannot be used in the nursery, and, on the other hand, methods used in the oursery are of no service for mature plants. For this reason, a spe-cial study of the principal leaf diseases of nursery stock has been made at the Cornell university agricultural experi-

ment station, and its results are given in a bulletin just issued. Nursery apple stock is liable to at tack by scab and powdery mildew; pear stock, to attack by seab, leaf-blight, and leaf spot; cherry and plum, to yellow leaf disease, and the forme to powdery mildew as well, currant and gooseberry stock may be attacked by anthracnose and leaf spot, and the latter by mildew also; peach is subject to peach leaf curl, some varieties apparently being more susceptible than others, and quince is subject to leaf blight. In addition to this fruit stock, many horse chestnut trees in nurseries are greatly injured by leaf blotch, and nursery rosebushes are subject to black spot and mildew.

Place to Feed Chicks.

It often is hard to feed little chicks on account of the old hens eating most of the feed. To prevent this I make a feeding creep for the special use of the little chicks. To make one of these runs take six pieces of 2 by 2 inch lum ber two feet long and saw one end of each to bevel. Nail two of them with



finished they look like three Vs upsid-down. Place the pieces nailed togethe two feet apart and nail lath four feet long on these pieces about an inch apart. Put the bottom lath three inches from the ground so the chicks can slip under to get the feed. When through using the runs they may be set away for another season. By doing this they will last several years. They save both time and feed in raising chicks.—Ne braska Farm Journal.

•••••••••••••• ABOUT LIVE STOCK.

Feed the calf lightly until it is five to seven weeks old, giving not over to seven weeks old, giving not over ten to twelve pounds of milk daily. Later the amount may be increased to fourteen or sixteen pounds and at three months may, though not always, go to about twenty, pounds. The amount fed, however, must be careful-by regulated by the ability of the call ly regulated by the ability of the calf to handle it without scouring.

Cleanliness is a big factor in the successful raising of sheep. Raise roots for the sheep. They are

relished, and it improves their health Sugar beets rank first, rutabagas next then pumpkins. Four to five pounds daily to each sheep will improve their general health and make the meat ten-der and juicy.

A good ram has a broad head, ches and back, short thick neck and shoul ders and straight hind legs.

There is no kind of animal breeding

that will pay better than the breeding of horses, but horses that will sell, not "dunghills" or misfits.

It is impossible to develop a colt into a sound, serviceable horse if it is kept tied on a hard floor day in and day out

tically of No Use.

As a Measure of Protection It Is Practically:

Ridiculing the practice of singeing the hair, a medical journal says editorially:

"This is recommended to overcome splitting at the ends and to prevent falling of the hair, the reason for the latter being that it 'closes the pores and keeps the fluid in the hair.' With the long hair of a woman, which has a tendency to split at the ends, it is possible that singeing the tips may be of some use. It substitutes a charred blunt end of fused horn for one tapering to a point or cut clean across. But even in cases of this sort it is less useful than greasing lightly the hair and thus supplying the fat which is lacking in such hair.

"For the hair of men, which is kept short, singeing is not of any use in preventing splitting. Hair which is not allowed to grow to its natural length does not split unless it has a deep-seated disturbance, for which there is no such simple remedy.

"Of course singeing the hair ends in order to prevent the fluid in the hair from escaping, like sap from a tree, is based on an entire misconception of the hair's structure and nutrition. The hair does not contain any more sap than a buggy whip. It but the blood plasma that reaches

ception of the hair's structure and nutrition. The hair does not contain any more sap than a buggy whip. It is not nourished by any fluid in it, but by the blood plasma that reaches only the hair root. The hair above the skin surface is a spine of horn, which is even oiled from without, and singeing its tips has no effect whatever on either its nourishment or its growth.

its growth.
"It is certain that singeing the "It is certain that singeing the hair is of no great value in preventing its fall. In fact, the only value the procedure has is to the zealous hair-dresser, who gets his little fee for doing it—unless it is worth a quarter to the seeker after hair to think he is doing something, even if he is not."

Scotch Logic. A Scotch minister was startled by the original views of a not very skillful plowman whom he had just hired. He noticed that the furrows were far from straight and said:

"John, yer drills are na near straucht ava—that is, no like Tammie's wark"—Tammie being the person who had previously plowed the glebe.

"Tammie didna ken his wark," observed the man coolly as he turned

observed the man coolly as he turned his team about. "Ye see, when the drills is crookit the sun gets in on a' sides, an' so ye get early tatties."

Thumbs of the Gorilla.

The gorilla and chimpanzee, which belong to the higher order of apes, have many points of resemblance to man, but there is one thing they can--that is, twiddle their thumbs not do—that is, twiddle their thumbs. In the gorilla the thumb is short and does not reach much beyond the bottom of the first joint of the forefinger. It is very much restricted in its movements, and the animal can neither twiddle his thumbs nor turn them round so that the three describes a six twiddle his thumbs nor turn them round so that the tips describe a circle. There are the same number of bones in the hand of the gorilla as in the hand of a man, but the thumbs of the monkey have no separate flexor or bending muscle. This is why a monkey always keeps the thumb on the same side as the fingers and never bends it round any object that may be grasped.

Alibi Not Complimentary. Alioi Not Compilmentary.

A prisoner at the session had been duly convicted of theft, when it was seen, on "proving previous convictions," that the accused had actually been in prison at the time the theft was committed.

"Why didn't you say so?" asked the judge of the prisoner angrily.

"Your lordship, I was afraid of prejudicing the jury against me."

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