

INCUBATION REQUISITES.

One of the most important things in running an incubator is to begin O. J. Brown. He likes a change of right. In the first place, get good fresh eggs, for without such material nothing can be done. They may be eight or ten days old if properly handled, but no older if possible. If necessary to purchase the eggs, get them from neighbors who keep enough male birds to insure strong, fertile eggs. If brought from a distance store them for about 12 hours before setting the machine, writes a correspondent.

By all means get a reliable machine. Set it where the temperature varies as little as possible, but in a well ventilated room. Be careful to avoid a drafty place. After it is placed in position use a spirit level to insure an even distribution of the heat. Fill and light the lamp and regulate the machine. Place thermometer as near the centre of the machine as possible, with the middle of the bulb resting against an egg. When it registers 103 degrees and remains at this heat for several hours, the eggs, may be put in the machine. The cold eggs will lower approaches separate them and put the temperature for a short time but each sow in a lot by herself. Prowill heat up gradually. After they vide a good-sized lot with a shed reach 103 degrees keep them at inclosed and give plenty of good, about this temperature.

ally run the machine at 104 de- When the pigs come they will thrive grees, as we have found by experi- on sunshine and the teat until they menting that we get more chicks in get large enough to eat with the this way. We don't let the machine sow. They will soon learn to eat. run below 103 degrees if we can When warm enough provide a place possibly avoid it. Although some for the sow to wallow. Treat her chickens will hatch at 102 degrees with kindness and she will bring they are not usually as strong as if forth abundance. When the pigs are the heat had been higher, while some four or six weeks old, turn them inwill fail to get out of the shells. We to a grass lot, either clover, oats, or formerly turned the eggs twice day, but now we turn them only at

noon, and they seem to hatch better. We test out all the infertile eggs the seventh day and boil them after the chicks hatch. The yolk is fed to the little ones for their first meal or two as long as they last. About the 14th day we test again and take out any eggs that have dead chickens in them. To test, we hold them before a well lighted window, on a clear day, with the aid of a leather tester. After they have been tested, Baden-Powell's Clever there will probably be space enough to allow them to lie flat in the tray. We fill the lamp every morning, clean the wick by simply pinching the char off and make it slightly rounded down at the corners. The sleeve of the burner is always kept clean, so it will work smoothly. We fill the moisture pans full of warm water on the 18th day and after the chicks once commence to pip, we do not open the machine until they are hatched.

We have a nursery beneath our incubator. Into this the chickens drop historic, but here is one which was soon after hatching. If we were running an incubator not provided with a nursery, we would not open the machine unless so many chickens have hatched as to interfere with the thermometer. Then of course they would have to be taken out and put in the brooder. The more speedily the removing is done the better, as the escape of heat and moisture very rapid and the chicks still unhatched may suffer.

DEVELOPING SHEEP.

To develop a good flock of breeding sheep for wool and mutton would begin with ewes that are half Merino and mate them with a buck that is a full blooded Shropshire, writes Mr. Frank G. Hughes. In this cross you get a grade of sheep that is hard to beat for both wool and mutton. By this method I once got a twin lamb that sheared, when a little more than a year old, 16 lbs. of good wool and when a year and a half the carcass weighed 160 pounds. I cross my sheep back and forth as my judgement tells me is best. If the sheep are getting too wrinkly and the wool too short get either a Cotswold, Oxford Shropshire buck, and if the fleece is getting too hairy and light in weight I breed back to the Merinos.

In caring for the flock I prefer green pastures for them as many months in the year as possible. Bluegrass makes the best permanent pasture. Dwarf essex rape can be sown as soon as the ground will work in the spring and if sown alone five or six pounds of seed will be required per acre. Six or, eight weeks after sowing it will be ready for pasture which will last until freezing weather. A smaller amount of rape can be sown with oats and after the oats crop is removed I have an excellent and of all their enemies the most fall pasture. Sheep like rape, but I persistent were the inhabitants of would not advise anyone to keep one of the Visayan islands known as light." them on rape alone. They should Panay. have plenty of pure water at all times of the year.

in the fall of the year. When winter stopped and quantities of contraband comes on and the pastures do not seized, but yet the islanders seemed furnish enough feed to keep them to be plentifully supplied with amthrifty and growing nicely, I begin | munition. Eventually a vessel bound feeding corn and fodder, cowpeas, for a supposed friendly village was and clover hay and sometime thresh- stopped, the cargo being millions of ed oats or sheep oats. I believe ten boxes of Japanese matches. Soon sheep will cat as much as one cow afterwards another vessel was overand I aim to feed accordingly, I pre- hauled bearing a similar cargo, and fer to feed on the ground unless it then suspicion was roused. is muddy and wet when I feed in | It was suggested that the heads of movement of the head, and a moment racks; the threshed oats of course I | these matches made a good explo- later her husband died. feed in a trough.

in February and although it may re- pound from the stick a practically food. His wife and children have quire care to save them in cold wea- smokeless explosive was obtained of been practically starving for weeks, ther, when fall comes I think I am considerably higher power than black and he had been out of work for putting in a full day on a two-hour ahead for they go through the win- powder. Indeed, the velocity was o more th m six months.

ter better and make better sheep than do late lambs.

FATTENING HOGS.

To fatten swine quickly and with the least feed, one must go to considerable expense at the beginning. This will come back soon if managed properly. I believe a hog is something like a human being writes Mr. diet. It has been my experience that in cooking feed once in a while the best of results were secured. I feed largely of wheat middlings. An eight or ten-horse power steam engine comes very handy in grinding feed.

Turn the ground feed into a tank or barrels and turn the steam into tank or barrels. In five minutes the feed is cooked ready to feed when cool enough. If in cold weather, feed warm. The animals relish it better and it keeps up the animal heat.

Keep salt, ashes and charcoal handy and give a little two or three times a week. In watering swine I think spring water best, for the hogs like pure running water. If the spring is convenient, put in a hydraulic ram and pipe to where you

want it. Swill and milk, mixed with wheat middlings and some corn make a good ration. Keep in loose condition. Do not put more than three in one lot, for they are apt to injure one another. When farrowing time bright straw. An 8x8 shed will do When they are hatching, we gener- with a lot large enough for exercise. rye. Keep the rings out of her nose, for if she roots much, there is a lack of some food element which you must provide.

BELEAGUERED TROOPS ADOPT STRANGE RUSES.

Trick-Loading Guns With Matches.

Nothing so greatly taxes the resourcefulness of commanders and troops alike as a siege or blockade, and many and strange have been the expedients to which they have been

driven. Probably no leader ever did more towards bluffing his enemies, and at the same time keeping up the spirits of his own men, than Baden-Powell at Mafeking. Most of his tricks are not much heard of at the time.

The siege had been in progress about five months, when one day Baden-Powell ordered a parade of the garrison, and called on every man who could do tailoring work to step out. A number did so, and were ordered to fall to and make riding breeches out of a quantity of white linen lying at the stores.

COAT DOESN'T MAKE THE MAN.

ed from the Native Police Stores, woman with four young children, livand a few mornings later the Boers through their glasses a squadron of lancers parading in the defences. They actually believed that reinforcements had got into the town, and as they dreaded lancers worse than any other arm of our troops the garrison had a comparatively easy time of it for some days as a result of this clever ruse.

The Boers themselves, however, were not behind us in 'cuteness. At Ladysmith, for instance, they obtained some old gas pipes, and so arranged them that they could fire in them charges af black powder.

Every time one of their big guns, loaded with smokeless powder, was fired a gas-pipe was let off a few hundred yards away. Naturally, the change the coins. British gunners directed their fire at ruse was discovered.

MATCHES AS AMMUNITION.

The Americans had notorious trouble in subduing the resistance of at least a quarter of a mile before the Philippine islanders when they took over those islands from Spain, God," she cried, "give me a penny

American vessels endeavored to blockade it at last, but this proved Pumpkins are good feed for them a difficult task. Several junks were

sive. Experiments soon showed this The man's death was caused by I prefer to have the lambs come to be a fact. By rubbing the com- pneumonia, due to want of preper the plumber. "You kept me waiting

great that the bullet frequently stripped, but even so penetrated

FIVE INCHES FURTHER into sand than did one driven by black powder. After this it may be imagined that no more matches got The

into Panay. Just over 300 years ago the Japs were fighting over the very same country where their present campaign is taking place, but on that occasion they had things by no means their own way. Their enemies, the Coreans, had been reinforced by 120,000 Chinese, and the Japs were driven southwards from Ping Yang towards Seoul.

A force of Coreans fell back before the main Japanese army and were penned against the Im-jin river, stream with high banks. In order to cross and escape from their predicament the Coreans were forced to build a bridge of the most ingenious construction. They had no timber and no ropes, so they cut lengths of the tough creeper called "chik," and made from this material eight great hawsers, each 150 yards long. These they attached firmly to logs sunk in the ground on the near side, and then floated the other ends across the river, and anchored them in the same way.

The hawsers dragged in the water in mid stream, so the Coreans tautened them by twisting them with stout bars of wood. Brushwood was then piled on the hawsers and clay laid on the top till a roadway was formed. Over this an army of several thousand men, with all their camp equipage, crossed in perfect safety, and, having crossed, cut the hawsers through and escaped.

FIGHTING WITH FIREWORKS.

Sir Harry Johnston, of Central African fame, is another bad man to attempt to corner. On one occasion, when exploring the great volcanic range of East Africa, he was suddenly attacked by a great band of the savage Masai, the most warlike tribe in all Africa. They were fully five hundred in number, while his force consisted of a bare hundred of Zanzibaris, who are not good fighting men.

Intrenching himself as well as could at the foot of a steep hill, he turned to bay, but his little party were terribly hard pressed, and it was all his men could do to withstand the frequent rushes of their savage enemies.

Towards evening things were looking very black, when a brilliant idea came to him.

"I remembered," he says, "that I had among my stores a box of crackers and fireworks. I told my followers to keep on fighting and all would the box, and half way up the hill I let off a whole packet of squibs, colored fires, and rockets."

A great blaze of blue and red fire lit up the dark crags and the forest the extraordinary illumination blaze and fat. up into black sky they instantly took to their heels. The evil spirit of the mountain was evidently fighting for the white man, and it was no use to stop and argue with him.

TO SEE HER HUSBAND DIE.

Tale of Poverty and Sickness Among London's Poor.

With the dwindling light from Seventy pairs were turned out, and penny-in-the-slot gas meter casting each piece about five inches long, those engaged in the scene of conthe same number of tunic fronts as its last flickers on her fast-dying lancers wear. Helmets were obtain- husband, Mrs. Tranter, a starving ing in Clerkson street, Canning were nearly paralysed by seeing Town, made the tragic discovery that she had but two halfpennies left in the world, says the London Mail. A few moments later the light went out, and left the weeping wife in terror that she might never see

her husband alive again. There was but one alternative. which involved a desperate race with death. If Mrs. Tranter could change her two halfpennies for a penny quickly she might be in time to ob-

tain more light while he still lived. Mrs. Tranter seized the halfpennies from the mantelpiece of the humble bedroom, and, without hat or boots, rushed into the street in the hope of finding some passer-by who could

Clerkson street, however, is one of the tell-tale puffs of smoke, and it those poor and dismal thoroughfares was some time before the cunning with which Canning Town abounds, and, as it was well past midnight, the roads were almost deserted.

ARRIVED IN TIME.

The distracted woman had to run she met a man. "For the love of for these two halfpence. I must see my husband again. I must have

Strange though the woman's action must have seemed, the man did as he was asked, and Mrs. Tranter ran back to her dying husband's bed-

Slipping her last penny into the meter slot, she lit the gas again, and was overjoyed to find that he was still alive.

"Fred," she said, "I have come back to you. What can I do? Is there anything I can get?"

The only response was a feeble

FUR ANIMALS ARE GOING SOME GALLOUS FEOPLE

ENDLESS DEMAND OF RECORDS FASHION.

Wild Creatures of North Are Being Rapidly Killed Off.

During this year's sacrifice of wild birds and animals-slaughtered to Government clerks acting as did satisfy the vanity of fashionable wo- some of their Russian confreres a men-it is believed that more furbearing animals will be killed than time of the assassination of M. in any of the preceding half-dozen Kantcheff, the Russian statesman. winters, for furriers throughout the The great Muscovite struggled for country are warning their agents life for fully five minutes. He seized that the passion for furs will be at and broke the dagger wherewith the its height next winter, and that it will be difficult for trappers and tried to wrench the revolver from the hunters to satisfy the demand.

No cause has contributed so largely to the disappearance of wild life in America as has this steadily increasing demand for furs, and it is pointed out as one of the most singular conditions of any country that women, who are looked upon as the epitome of gentleness and sympathy, should be the means of exterminating whole races of wild birds and ani-

During the last twelve months more than 1,000,000 muskrats were slaughtered to be made into fashionable furs. Almost half as many mink were trapped and shot. Yet these represent only two of the scores of species of animals that are called upon to sacrifice their lives at the demand of fashion. It is not improbable that last year 5,000,000 of the creatures of the forest, field the ditch by the roadside, taking and stream were slaughtered, says the Detroit News-Tribune. So furious was the pursuit of fur- who was only slightly hurt, was bearing animals during those soon on his feet. months, and the three or four years preceding, that the almost total ex- assistance of the man in the ditch, tinction of some of the most inter- he coolly produced a camera, and esting animals species is threatened. took a snapshot of the disaster.

RICHEST OF FURS.

season profitable. If it is a poor Mersey Park. Tranmere, recently. pelt it will sell for \$500 or more; if During the night, someone pulled up it is a good one the hunter may re- the coronation oak planted by Counceive as much as \$1,400 for it. The cillor Goodwin, chairman of the fur of this animal is the finest in the Parks Committee. The young tree, world. It is as soft as sea-island it was afterwards found had been cotton, and every hair is waved. thrown into one of the shrubberies. Near the hide it is blackish brown This was the second occasian on in color, then silver grey, and it is which the tree had been uprooted, tipped with jet black. For these and each time a cauliflower had been reasons the animal bearing it is call- placed in the position previously oceither the "silver" or the "black"

It may take three or more hunters a whole hunting season to catch enough of these animals to make a woman's jacket, for at least three fire-station, by some unknown scamp, skins are required for that purpose, be well. When night fell I climbed and the fashionable, dame who gets sive liquid over every length of hose up the mountain side, unseen by the the fur may have to pay \$4,000 or in the building, rendering it all quite

are armed with guns. But guns do covery, but so far there has been no little of the work. Across the white result. waste the man sets out with - per- There was a tremendous "row" rechaps a few steel traps, and it may ently in the Austrian House of below. The Masai are notoriously be with nothing but pieces of shar- Deputies. Two members shouted superstitious, and when they saw pened whalebone and strings of flesh insults at each other, and nearly

Everywhere are signs of the wild and there was a free fight. and sharpened to a needle point at flict. both ends. Doubling a piece over in the form of a loop, he binds it with a piece of tendon and then wraps on the trails of foxes.

HOW VICTIM IS CAUGHT. A few hours later a fox steals over

the wilderness of white. It comes upon one of these little death traps, smells and then slinks back and debates with itself for a few minutes, as all foxes do. There is nothing suspicious looking about the flesh. For a little while the animal nobbles at it, until it becomes softened the whalebone straightens out, and means. like a relentless dagger pierces the vitals of its victim. In agony the lady named Minet, had strong views animal dies, and, stretched out on on the subject of cats harbored by the snow and ice, awaits the coming a certain tenant-numbering thirty of the hunter.

this time, as well as a hundred oth- the ers, the man is disappointed. In thirty were basking in the backmany cases only bits of fur and yard, the concierge bethought her of bones remain to show that the big a plan. Taking a piece of meat, and white wolves of the Arctic regions holding it seductively up to their have been there before him and eaten his game. It may be that once the bits of fur were silvery black, and the hunter knows that he has lost what is to him a fortune. So he follows these great wolf packs closely, slaughtering all of the animals that - he can. In this way it follows that in the catching of single silver fox for some woman i a big southern city a hundred an nals may be slain.

HE GOT EVEN.

my work." "Yes, I did," soothingly replied job.

IN CLEAR HEADS AND HARD HEARTS.

the Russian Clerks Laugh at a Murder- Cyclist Took a Snapshot.

> Could anyone conceive of British year or two ago? It was at the assassin attacked him. Then he murderer Krandjouloff's hand, but failed. The murderer fired six shots, and the last one hit Kantcheff through the heart. Then the assassin coolly sat down on a sofa and blew out his own brains.

> All this time a shorthand writer was standing by and a dozen clerks in the outer office, listening to the noise of the tyrant's doom, exchanged winks and grinned. Not one moved a hand to save the Minister. SNAPSHOTTING AN ACCIDENT.

> More callous with less reason was a cyclist, who, descending a steep hill at Dordogne. in France, the other day, fell down with his machine just before a cart drawn by a mule. The frightened animal kicked and reared until it finally fell into cart and driver with it. The driver's legs were broken. The cyclist,

> Instead, however, of going to the Then he mounted his machine and made off.

One black fox makes the hunters A callous freak was indulged in at cupied by the oak.

BURNING THE FIRE HOSE.

Even this outrage was exceeded at. the Knaresborough Urban Council's the other day. He poured a corro-Masai, with a Zanzibari to carry more for the privilege of wearing it. useless. Ten pounds' reward was at The majority of the fox hunters once offered for the criminal's dis-

came to blows. Others chimed in, things of the great north-fox and the dispute was at its height, somewolf tracks-and occasionally the one suggested in a loud voice that tracks of bears. But where there are the President should intervene. All the tracks of a thousand common eyes were turned to the Presidential Arctic foxes there may be only one chair, only to see that the President, made by a silver fox, and this the so far from calling the combatants hunter cannot distinguish from the to order or intervening in any way, others. So he sets his spring traps. was holding a pair of opera-glasses After this he scatters the terrible lit- to his eyes, and contemplating with tle "death traps" of the Artic hunt- evident satisfaction the violent gesers. These are made of whale-bone, tures and grimaces of rage made by

SCHOONER HOLDS UP A LINER. Fretty cool was the conduct of the flesh tightly about it. Perhaps he French fishing skipper whose little scatters half a dozen of these things schooner "held up," on the banks of Newfoundland, the big Hamburg-American liner Auguste-Victoria, on a recent trip West.

The skipper flew the signal "B. M. S.," meaning, "Will you take mail

Captain Kaempíi was so struck by the cheek of the Frenchman that he stopped the liner, and the letters were sent on board.

The Frenchman said he left Britand covered with saliva, then he tany a year ago, and thought his swallows it. Eight-ten-perhaps fif- wife might be worried. The letters teen hours, later, the flesh and the were to ease her mind. At any rate, tendons become digested, and slowly he thought the end justified the

A Paris concierge, or doorkeeper, a felines in all. The lady is now the It may be an ordinary fox, and, talk of Paris. The other day, when happy family of whole gaze, she lured the regiment of pussies into her little lodge. There she fell upon them with a stout cudgel and laid about her to such purpose that most of the cats were slaugh-

Pedro Mendez had more mercy than the concierge. He was a merchant of Seville, and was awakened by a. noise at his bedroom door. He found a burglar on the threshold, and at the revolver's point forced him to step inside while he dressed. the merchant still held the revolver, "Say," asked the wrathful patron he could not fasten his tie or shoes, over 'phone, "what do you mean by so he compelled the burglar to act this item of overtime in your bill? as his valet. Then he took him to You didn't put in any overtime on the police-station .- Pearson's Weekly.

The extent of China's coalfields has ten minutes that evening while you been put at 400,000 square miles told me what you thought of me for more than seventy times the aggregate extent of all the coalfields of Britain.