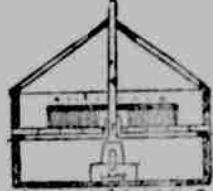




Top-Heat Hot Air Brooder.

The following is a description and a diagram of a brooder which is in use at the Montana Experiment Station and is recommended by them. It was designed by Mr. James Ranken, a veteran poultry breeder of Massachusetts. Its construction is as follows: "A box is made three feet square and of four pieces of eight-inch lumber surfaced. Upon the top of this box, for a cover, is nailed a piece of zinc entirely covering the box. This zinc has a hole in the center over which is soldered a pipe 1½ inches in diameter and 22 inches long. This pipe is soldered on the outside, the metal being the top of the box. Next comes the floor over this zinc, but not touching it because an inch strip, 1 by 1, should be nailed on around the outside in order to make an air space between the floor and zinc. This strip should be broken midway on either side an inch opening should be left for the admission of outside air to the space underneath the floor. The floor should be made of "ceiling," smooth surface up. Exactly in the center of this door a hole should be cut 2½ inches in diameter and in this hole a pipe 2½ inches in diameter and 3 inches long fastened. This pipe should just extend through the floor level with the underside of the bottom. Through this pipe the long ventilating pipe will go. This completes the body part of the brooder and a hover and top complete the requirements. The hover should be made in the form of a circle two feet in diameter, in the center a hole large



HOT AIR BROODER.

enough to allow the vent pipe to pass should be cut, and four legs 3 inches long tacked on to raise it to the required height; then tack a light fringe of lute sacking around the edge only. This is the hover complete.

Next is the top. Make another box similar to bottom, using four pieces of six-inch lumber dressed. Upon opposite sides a piece cut with a double pitch 3 feet long and 1 foot high in the center should be nailed to form the ends and the apex and joined with a piece 34 inches long and 2½ inches wide cut with bevel to allow the screen doors, which should constitute the two sides of the roof, to fit snugly. This box portion should have a little door cut in it and an incline made for chicks to run in and out of the brooder.

The working of this brooder is extremely simple; a brooder stove is placed under the box and it heats the metal cover; this in turn heats the air in the space between it and the floor. This air on being warmed, rises upward through the 2½ inch pipe and flows out over the chicks that are underneath the hover. Since this air comes through the holes between the 1 by 1 inch strips and does not come in contact with the lamp, a pure and constant supply of air is insured, giving almost perfect ventilation in addition. These brooders serve the purpose very well where only a limited number of chicks is to be raised, but where the business is to be conducted upon a larger scale, either coal or wood heaters with pipe system is best.

Cure for Brittle Hoofs.

Horses are frequently troubled with brittle hoofs, caused by a deficiency of water in the bone. This condition may be caused by fever of the feet, as in common founder; inflammation of the interior of the feet; exposure to fermenting manure of filthy stables, by which the horn is saturated with moisture containing ammonia. It may also be caused by leaving the feet covered with mud, or by continued dry weather or other unhealthy conditions. The horn may thus become dry and granulated and often separates very easily, crumbling and splintering away until there is scarcely crust enough left to fasten a shoe upon.

The remedy is to remove the cause and restore the moisture. Frequent washing of the feet with cold water will aid materially in curing. Glycerine and water in equal parts make excellent dressings for the hoofs.

Fighting Oleomargarine.

The State Dairy and Food Department of Ohio has been in receipt lately of a number of protests from traveling men against the utter disregard by certain hotels of the oleomargarine law. In response to these protests warnings were sent to the proprietors. A circu-

lar letter will be sent to every keeper in the State calling attention to the provisions of the law regarding this matter, together with the intimation that the department intends to use repressive measures. The law on the subject prohibits the use of artificial butter that contains any coloring matter not natural to the product. The statute also prescribes the display of a card not less than 10 by 14 inches in size, upon which are to be shown in letters not less in size than one and a half inches square, in black ink, the words, "Oleomargarine sold and used here." This must be shown in the eating room where the substance is served and must be in a place therein where it can be easily read. The penalty for failing to observe the law is a minimum fine of \$100 for the first offense and a maximum fine of \$500 and ninety days in jail for subsequent offenses—Dairy and Creamery.

To Prevent Shying.

A plan for preventing a horse from shying consists of a nose piece passing over the horse's nose, as shown in the sketch. The strap does not necessarily draw on the lip unless the driver pulls on it, then it touches the animal's nose, and the mere touch does the whole business.

In describing this device its originator says: "The contrivance consists of simple head strap, properly braced and coming down between the horse's eyes and nostrils, to its end in the shape of a sort of little metallic upper lip. The latter little pieces of metal, one about two inches long, and not half an inch wide, is humorously called a 'trolley bit.' Its curving side-ends, like an ordinary bit, are so devised that a very slight, gentle pull on the reins brings the 'trolley bit' against the top of the horse's nose. In complete absorption in the study of a new experience the horse may be driven right up by the side of a noisy locomotive, or of a gong-banging trolley car, that presents to the horse, under ordinary circumstances, the sinister aspect of a moving, perhaps a living, thing, going without any visible means of propulsion; and in his strict attention to the new sensation at the tip of his nose he will take no notice of the ear or of the locomotive. The queerest thing of all is the fact that no amount of use or familiarity with the nose-toucher arrangement seems to lessen the horse's interest in it."

The Mosquito Plant.

The "mosquito-plant" species of baill, is attracting a great deal of attention in England just now. An army officer who secured one of these plants in Nigeria says it is well known as a mosquito defense there, and the natives use an infusion of its leaves to cure malarial fevers. As soon as a hedge of this shrub was planted about the Victoria gardens, Bombay, India the workmen, who had previously been almost unable to work because of the swarms of mosquitoes, had no further trouble with either these pests or the scourge of malaria from which they had been suffering.

Butchering Outfit.

An interested reader sends a sketch for a one-man butchering outfit, as illustrated in the Ohio Farmer. A post 8 feet high has pivoted to its top a sweep 15 feet long. This sweep has a hook on the short end and a rope on the long end. The scalding barrel, cleaning bench and hanging gallows are all on the circumference of the circle.

ONE MAN BUTCHERING OUTFIT.

One made by the short end of the sweep. With an arrangement of this kind it is apparent how one man can easily do his own butchering.

Does This Fit Your Cow?

If a boy should come from the heart of a city, says the Farmer, who has neither seen nor heard of a cow before, how would he describe it as it is seen at this time of the year on many of our Minnesota farms? His observations would lead him to say that it was used as a sort of scavenger to keep things picked up about the field in winter time, to pull the branches of the corn stalks and trim up and bore into the straw piles, and no work stands on the leeward side or the strawstacks or in the fence corners with its rudder to the wind. It has a hump similar to a dromedary, only more rounding. It has hair like most other animals, except that it stands up more, and on its flanks it has not hair at all, but scales like an alligator. It doesn't seem at all satisfied with life but stamps its feet, shakes its head and acts mad.

Duck-Houses.

Ducks are very free from disease compared with chickens, but they are at times subject to leg weakness, due to overfeeding or damp floors. The floors of the duck-house should be kept well littered with cut straw. They soon make their quarters very filthy, hence the necessity of renewing the litter frequently. As no roots are required, and ducks are hardy, the house need not be very expensive. The roof should be tight and the floor dry. If the floor is boards, so much the better. In such quarters they should begin to lay now and keep at it until the summer is well open.

DIES IN HIS TRACKS

EX-POLICEMAN OF DENVER SHOT BY AN ASSASSIN.

TEN BULLETS IN HIS BODY

KILLED WHILE RETURNING FROM A SOCIAL VISIT.

One Man Arrested, But No Positive Evidence Against Him—Anarchists of Europe Warned to Keep Away.

DENVER, Colo.—Lyte Gregory, an ex-politician, was assassinated early this morning when he was returning home from a social visit with friends. His body was riddled with bullets and he died in his tracks. It is believed that the assassin used a repeating rifle and his aim was true, for in all ten bullets penetrated the murdered man's body. No positive trace of the assassin has been found.

The murder occurred on West Third avenue, near South Water street, a section of the city inhabited by the working class. Gregory was alone and unarmed. Mrs. John Combs, a neighbor woman, who heard the shots, also heard the cry: "You murdering blackguard" and thought the voice was that of her husband, whose return home she was awaiting. Combs was later found at a bowling alley and placed under arrest. It is said that Combs had been at the bowling alley all evening and no evidence of guilt has yet been traced to him. He is being held however.

Gregory recently had served a detective agency and was one of the men accused by William Ween in the national committee of the United Mine Workers of America of assaulting him on a railroad train near Salida, Col., recently.

High Court Says They Must Go

WASHINGTON—In an opinion today by Chief Justice Fuller, the United States supreme court sustained the action of the immigration authorities at the port of New York in ordering the deportation of the Englishman Turner, alleged to be an anarchist. The chief justice said in his opinion that Turner did not himself deny that he is an anarchist.

The weakness of the Manchurian

army, said this officer, left only one course to pursue, namely that of mobilizing sufficient troops at Port Arthur to hold it until relief came, abandoning every point outside which did not contribute to the strategic defense of the fortress. It has been learned that the ground over which the Japanese must charge to capture the fortress is heavily mined. If they do capture it, the officer said they will pay a trifling price.

The destruction of Dalny is complete, the brawner and the buildings, as well as the piers and docks having been blown up.

It is announced tonight that Lieutenant General Zassalitch has been relieved of the command of the second Siberian army division and that Lieutenant General Count Eller, former governor of Ekaterinovsk, has been appointed to succeed him.

Machinists Vote a Strike

CHICAGO.—A strike by five thousand machinists which will make idle five thousand other workers in allied crafts was voted for in mass meeting tonight by the machinists' union to take effect Wednesday unless their demand for an increase of wages is granted by the Chicago metal trades association, comprising the leading firms in the metal trades industry.

The situation is critical and although a conference is to be held tomorrow it is not likely there will be any agreement unless the union men recede from their positions, as the officers of the association emphatically declare they cannot meet the wage scale demanded.

Ready for the Gallows.

LINCOLN, Neb.—Frank Barker of Red Cloud, the murderer of his brother and sister-in-law, was received at the penitentiary yesterday evening to await the hangman's noose September 2. If the supreme court affirms his sentence and the governor does not interfere the judgment of death, in accordance with the verdict of the jury, will be executed. Barker murdered his brother and sister-in-law for the purpose of securing their farm.

Instructions to Indians.

WASHINGTON.—The secretary of the Interior has issued detailed instructions to members of the five civilized tribes of Indians who may desire to have removed the restrictions at present placed upon the alienation of their lands. The regulations require that a petition be filed with the Indian agent at the union agency at Muskogee, and the control his own affairs.

Georgia Negro Lynched.

APPLING, Ga.—A crowd of about 100 masked men forcibly entered the county jail here about midnight last night, took out John Cuning, a negro, who was waiting trial on the charge of criminal assault, and hanged him to a tree. His body was then riddled with bullet-holes and the mob quickly dispersed after attaching the breast of the corpse a placard on which was written: "This is the penalty for rape."

WILL HAVE FULL SWAY

JAPS OVERRUN SOUTHERN END OF LIAO TUNG PENINSULA

Liyo Yang Destined to Be Scene of Early and Great Battle—Gen. General Zassalitch Believed of Command.

ST. PETERSBURG.—Advices received by the general staff show that the Japanese are practically masters of all of the southern end of the Liao Tung peninsula, save Port Arthur and the territory commanded by guns. This result so promptly brought about, is due to the failure of the Russians to make opposition of any consequence to the Japanese advance upon Liyo Yang, these dispatches state especially that the Chinese have commenced hostilities against the Russians. Major General Karkevitch reports that the Chinese at attacked his outposts on the Feng-Wang-Chen road leading to Siamtsi. General Pliug telegraphs that according to reports of patrols and missionaries the Chinese at Tapaditsi, 160 miles northwest of Mukden, and just outside the Russian sphere of influence, are preparing to rise against the Russians generally.

The destruction of Dalny was the result of no sudden determination, but was due to the probability that a force attempting to hold this place could be separated from Port Arthur and captured, thus inflicting further loss of prestige to the Russians which could not be permitted at this time. To defend the whole of the southern end of the Liao peninsula it would have been necessary to have an army equal to that which the Japanese have landed.

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May Close the Pool Rooms

CLO. Robert C. Clowry, president and general manager of the Western Union Telegraph company, suddenly shut off all service of racing news to all classes of subscribers in this city today. This act of Col. Clowry's taken entirely on his own initiative, without instructions from his board of directors or any pressure from the authorities was the result of claims recently made public by police officials that the pool rooms of New York could not exist without the Western Union service. Recently a civil organization, called the City club, made public charges that if the Western Union would assist them the pool room evil in this city would be overcome. The action of Col. Clowry is the result.

Commissioner McAdoo, of the police department when told about Col. Clowry's statement said:

"If the Western Union Telegraph company has cut off, not only the direct wires leading from the central office to the pool rooms, but connections from the exchanges with which they have been under contract and which, in turn, retailed the news to pool rooms for gambling purposes, then this vice has received a most damaging blow, and if it survives it all, it will have to do so under other forms and devices. If the information is correct no one will be more gratified than myself, both personally and officially. I am especially pleased as it anticipates a reply to the resolution passed by the executive committee of the Western Union company which I was this day about to mail to President Clowry."

The commissioner said then that this was more radical action than he had dared to hope for.

Shoot Down a Desperado.

ST. PAUL.—The notorious desperado Jack Sully, who for many years has been the terror of the Rosebud country, was killed toady in a running fight with officers on the Rosebud reservation. Many bullets found lodgment in Sully's body, while the horse on which he was attempting to escape also was killed. About a week ago Sully ran off a bunch of nearly 200 cattle, dispossessing a portion of them in Nebraska.

KEY JOIN WITH JAPAN

ATTITUDE OF CHINESE NOT TO BE LONG DOUBTED.

German Newspapers Declare The Cause Lost—French Confidence in Russian Proves Beginning to Wane.

ST. PETERSBURG.—Disquieting news regarding the attitude of the Chinese is contained in dispatches from the offices at the front issued by the general staff tonight. In addition to giving further details on the cutting off of Port Arthur and confirming the report of the Japanese advance upon Liyo Yang, these dispatches state especially that the Chinese have commenced hostilities against the Russians. Major General Karkevitch reports that the Chinese at attacked his outposts on the Feng-Wang-Chen road leading to Siamtsi. General Pliug telegraphs that according to reports of patrols and missionaries the Chinese at Tapaditsi, 160 miles northwest of Mukden, and just outside the Russian sphere of influence, are preparing to rise against the Russians generally.

As showing the extent of the hostile attitude of the Chinese, attention is particularly called to the fact that the distance in an air line from that point where the Russian outposts were attacked and Tapaditsi is 200 miles. The authorities say that this matter affects not only Russia, but the whole civilized world, as it is feared that the rising will spread to other parts of the empire.

The hostile attitude of the Chinese is attributed to the action of the Japanese in spending reports of their successes and magnifying their victories at Port Arthur and on the Yalu. This propaganda has been active recently in all parts of China. So far as the railway is concerned, while it is admitted here that a Chinese outbreak will be a new source of danger, preparations have been perfected by General Kuroptkin to insure the protection of this artery which is vital to the supply of his army.

BERLIN.—The newspapers of all parties have begun viewing with one another in praise of Japanese military genius and in prophecies of the continued defeat of the Russians. Several morning journals openly declare that the Russian cause is lost, one inmate an attempt to recover her prestige in another sphere—evidently meaning southern Asia—rather than to continue the struggle in Manchuria indefinitely.

PARIS.—French confidence in Russian powers is much shaken as a result of the recent developments concerning the weakness of General Kuroptkin's land forces. The early Japanese successes were accepted as merely preliminary, it being believed by the officials and public here generally that Kuroptkin was concentrating a vast force, approximately 400,000 men, which eventually would annihilate the small Japanese army.

Barker Makes Confession.

RED CLOUD, Nebr.—Frank Barker, who was found guilty of murder in the first degree, with the penalty fixed at death, was sentenced by Judge Adams to be hanged on the second day of September. He was much dejected and shortly afterwards made a confession to Court Reporter Furse. He killed his brother and his brother's wife on the night of January 31 last.

To the sheriff Barker stated that he wished to make a statement to the court. On being brought before Judge Adams he made a full confession.

Barker said he went to his brother's home on the night of January 31 and knocked. His brother Daniel opened the door and Frank followed and fired a second shot into the body from which he died instantly. Mrs. Barker jumped from her bed and Barker shot her through the head. According to the statement he then buried the bodies in a cow shed, where they were found a week later.

The condemned man was quiet tonight and expressed remorse at his deed. He asserted that he was under the influence of liquor when the deed was committed.

Fire Raging in Krug Park.

OMAHA, Neb.—A serious fire broke out at midnight in a pavilion at Krug park and spread rapidly. A telephone message from the park at 2 o'clock stated that all the buildings in the park would probably be destroyed. The park is beyond the city limits and without fire protection except a private system. Fire apparatus has been sent from the city department to assist. The loss can not be estimated.

NEBRASKA NOTES

E. D. Hall, a Burlington employee in the shops at Alliance, was taken insane and sent to the asylum at Lincoln.

A ladies' band is the newest feature of Norfolk musical circles. It has just organized and will begin business Thursday night.

Plattsmouth is being deck