MAN RULES CLOUDS.

EMPLOTING ARTILLERY A

As Many as 15.000 Guns Have Been Engaged in This New Worfare Along the Po and its Berdering Palans—The Battles Take Piace at Night.

Travelers in the valleys of the Po and the Rhone during the past season have had an opportunity to witness a new and thoroughly scientific use of camon in battles fought without bloodshed, yet ending with rout on one side and victory on the other. The vine growers of Northern Italy and of Southeastern France have begun to employ artillery against thunder and hall storms. In many cases the women have been the camoneers and the roar of the contest has frequently recalled that of an actual battle field. As many as 15,000 guns have been engaged in this new warfare along the great valley of the Po and it so bordering plains, and government assistance has been given to the combatants in both France and Italy. The enthusiastic reports of those who have taken part in the novel defence of the vineyards are filled with stories of constant success against the enemy.

These battles with storms have thus assumed great practical and scientific interest and importance. It seems to have been demonstrated that it is perfectly feasible by shooting at the Bouds of an advancing and gathering thunder storm to break up their array and to introduce so much confusion in their ranks as to prevent entirely the formation of hall, the fall of which during such storms often results in the ruin of many acres of costly vines. A single cannon on a commanding eminence suffices to protect about 60 acres of surrounding land. But isolated guns are not efficient. They must be arranged in batteries covering many sall-ent points suitably chosen with reference to one another, and the system of pickets connected with the guns needs to be as carefully organized as in the case of an army. Many times these battles take place at dead of night. The sentinels seeing suspicious clouds gathering, give the alarm, and immediately at all the stations within the threatened district the guns are manned and, at a signal, are fired in

the best reply, perhaps, to those who doubt the efficiency of this system of defence against storms is that the insurance companies have reduced their rates to the vine growres in the protected regions 33 per cent. since the guns have been in use. What works so well in France and Italy would doubtless work equally well in this country, and Professor E. W. Hilgard has already suggested that the system should be introduced in our middle west, where great damage is caused by thunderstorms.

en a beginning like this is o When a beginning like this is once made nobody is ever able to predict what the end will be. It has long been the dream of some meteorologists that man would eventually attain to a sufficient command over the elements to enable him, if not absolutely to rule the clouds, at least to interfere successfully with their movements and formation. It is an old superstition among many races that magicians and wizards can make and prevent rain and direct

tion. It is an old superstition among many races that magicians and wizards can make and prevent rain and direct the wind in its course. Whether this is half-conscious memory of some past age of human mastery over atmospheric phenomena or a prophetic tendency forecasting the direction of scientific progress, at any rate the success of the vine growers' protective artillery proves that man's control over the powers of the art is not all a dream.

A few years ago the failure to produce rain in a season of drought by firing dynamite bombs from balloons discouraged efforts in the direction of the artificial production of desirable states and conditions of the weather, but now it seems that the problem only needed to be attacked from a different side in order to give promise of at least a partial solution. There would be no cause for wonder if in a few years it should be found practicable, by means similar to those employed in Italy and France, not only to protect vineyards from hallstorms, but to dissipate the destructive power of many local tempests and even of the dreaded Western tornadoes themselves.

That the immense atmospheric disturbances, hundreds and thousands of

Western tornadoes themselves.

That the immense atmospheric disturbances, hundreds and thousands of miles in linear extent, which are technically known as cyclones, will ever submit to human control is far too much to expect, but the world will be a pleasanter dwelling place after local storms have been robbed of their terrors, and man will be a proud rider when he can feel that the winged horses of the air obey his bridle rein.—Prof. Garrett P. Serviss, in the New York Journal.

A Secretic Saying.

Secretes had some good, old-fashioned notions. As he used to saunter around in Athens he was accustomed to say:
"A horse is not known by his trappings, but qualities; so men are to be esteemed for wirtue, not weath."

HOW A TORNADO STARTS.

The Observations of an Eyewitness of a Nebraska Storm.

One of the most interesting facts concerning tornadoes is the record of how one began. The account was sent to the weather bureau by one of its observers. The following is an abstract: "By A. H. Gale, Voluntary Observer at Bassett, Nebraska." Dated, July 28, 1889.

"Mr. A. Brown, five and one-half miles northwest of Johnston, saw the tornado form. He was at work in his barnyard and noticed it coming across his field as a light summer whirlwind, such as is noticed on any still, hot day. Air at the time was calm. Mr. Brown says he was harnessing a horse, and as the light whirl passed him it gently lifted the straw edges of the roof of his cowshed, but had not enough strength to lift his hat, and passed on. At this point it was devoid of any color, and was mainly noticed by the whirl it made among the grass, straw, and châff on the ground; he watched its onward movement indifferently, and soon saw it gather a color which made it definable. He then paid closer attention to it and noticed it becoming black angry and gyrating

Whales from 300 to 400 years old are sometimes met with. The age is ascertained by the size and number of the whalebone, which increases yearly.

tained by the size and number of the whalebone, which increases yearly.

The telegraph poles along the Savannah and Statesboro railway, in Georgia, are growing. They are made of cypress, and must have been planted with the roots. They are sprouted at the top, and serve a double purpose. They are shade trees, as well as a support for the wires.

Divorces are rarely if ever heard of in China; and as for breaking the plighted troth the man binds himself by three solemn oaths to commit harikari if he proves faithless, while the girl by the same oath agrees to deliver herself over to the care of the headsman. But it is usual for them to pass over the "Wood Ling" without catastrophe. A widow in China cannot remarry without loss of reputation, and a girl who has lost her intended often takes vows of cellbacy in his memory.

Truly there were glants in Colonial

Truly there were glants in Colonial days. One Daniel Leake of Salisbury, N. H., made during his lifetime and was paid for a million shingles. During the years he was accomplishing this colossal work he cleared 300 acres of land, tapped for 20 years at least 600 maple trees, making sometimes 4000 pounds of sugar a year. He could mow six acres a day, giving nine tons of hay; his strong, long arms cut a swath 12 feet wide. In his spare time be worked as a cooper and he was a famous drum maker.

famous drum maker.

It is a peculiar fact that nearly all monarchs favor some unique plece of jewelry. William II wenrs a small bracelet hidden by his cuff. The Czar of Russia has a repeater worth 4000 rubles, which he prizes very highly. Marie Christine changes her rings several times a day, which she can easily do, as she possesses about 275 of them. The late King of Italy always wore a scapulary chain of platinum. King Leopold of Belgium is a crank on ancient time-pieces, of which he possesses a fine collection. One of the most valuable specimens is a watch that belonged to Marie Antoinette. The Sultan dons a chain shirt of gold and silver, and his hands are covered with a mass o rings of all kinds and sizes.



Monstrosities in Lamps.

All sc is of monstrosities are to be found in lamps. There are all kinds of strange designs to put into them, more, perhaps, than into any one other article made for real use.

Pale Green Enamel.

Time was when white enamel, or rose enamel, or pale blue, was desired in bedroom*sets. The green wicker chairs and lounges and green enamel bedroom sets are now in request. It is a pale willow green, cool looking and very pretty. It is easier to keep such furniture in order than when it is pure white. It is not desirable to have any touch of gilding added. The green chiffonier is a pretty piece of furniture.

straw, and châff on the ground; be watched its onward movement indifferently, and soon saw it gather a color which made it definable. He then paid closer attention to it and noticed it becoming black angry and gyrating vigorously, chips, straws, and dirt fell into it, and were absorbed by it and a smoky veil began to envelop the whirhing column as it mounted upward.

"At the same time a funnel began to lower itself from a utrollent iow-hanging cloud of an area of about 40 acres; the column and funnel soon connected, and with this union the 'thing' took on a terrifying aspect; up to this time had no feeling of apprehension. When the whirl passed him he said he was aware of its passage only by its action on the ground. No color. A black cloud above, in commotion, followed the whirl on the ground, which latter was eight or ten feet in diameter. This cloud was alone, separate, and clear from a higher strata of storm clouds above. When passing his polat, and as long as within his line of ytew, he estimated the speed at ten miles per hour, line of path east by south. I will say here that the entire path from start to end was 18 or 19 miles, and in that distance it made a southing from a due east course of two and three quarters miles, and ranged from one to three rods in width. Two and one-half miles from Mr. Brown's point it crossed a large cornfield, and here it received much of its coloring matter.

"That the affair was at this time in comfortable order was demonstrated by the shock it gave the first house it struck as it left the cornfield—Mr. John Strohm's. Mr. Strohm and his family saw it as it need to be good when proper care and stable, in all seven buildings, completely leveled to the ground, fences upset, broken down. Fence wire woven and interwoven with broken lumber, straw, debris of all sorts, plastered with mud. Every fence post standing in the track of cake, being the advanced by the shock it gave the first house it is track as it left the cornfield. Mr. John Strohm's. Mr. Strohm and his family saw it



Oak Hill Potatoes—Cut four cold boiled potatoes and five hard boiled eggs in one-fourth-linch slices. Put layer of potatoes in buttered baking dish, sprinkle with salt and pepper, cover with layer of eggs. Repeat, and pour over two cups thin white sauce. Cover with buttered cracker crumbs and bake until crumbs are brown.

Mayonnaise Eggs—Boil five or six eggs half an hour, cut in halves lengthwise, put whites aside in pairs. Rub yolks through a colander and work to a smooth paste with mayonnaise dressing. Fill the whites and press the halves together. Fill the center of a plate with cress, stand the eggs upon it, surround with overlapping slices of the meat, and garnish with cress.

Brown Bread—Scald one quart of

of the meat, and garnish with cress.
Brown Bread—Scald one quart of milk and pour it over a mixture of one and one-half pints corn meal and one pint of rye meal (not flour); add one cupful molasses, one tablespoonful melted butter, one teaspoonful salt and the same of soda, with one egg; turn into a buttered tin and steam four hours. A person once eating this brown bread will never wish for any other kind.

Dutch Peach Cake—Sift towather two

brown bread will never wish for any other kind.

Dutch Peach Cake—Sift together two cups flour, half a teaspoonful of salt and two teaspoonfuls of baking powder. Work in lightly one-fourth cup of butter; stir in one cup milk which has had one beaten egg added to it; turn into a buttered ple tin and press into the top of the dough four peeled, stoned and quartered peaches. Sift three tablespoonfuls of sugar and one of cinnamon, mixed, over the top. Bake and serve with butter.

Peach Pie—Line a plate with plain paste with a pastry jagger cut several half-ineh-wide strips of puff paste; put three of them across the ple and then three more at right angles with these and a strip around the edge. Put half a peach in each of these squares, hollow side up. Mix one teaspoonful of cornstarch with half a cup of sugar and one cup of cream. Pour this carefully into the spaces between the fruit. Bake until the paste is a delicate brown.

Dr. Johannes Bresler in Freil Dr. Johannes Brester in Freburg, lesia, is about to open a museum of a yet kind. It will be devoted to the udy of psychiatry and will contain odels of various lunatic asylums and imples of every appliance in use in the Institutions

Emmet Boyles, who lives near Rosendale, Mo., has found in a ravine a mine of curiosities. Among the things found are a petrified cat, a petrified white oak log, mussel shells, snails, etc.; also, some fine filnt Indian arrowheads and fine specimens of different kinds of ore.

An Austrian inventor has just pa ented a speaking clock which helaims will be of the greatest value opersons of forgetful and irregular hal its. It consists of a clock-phonograp combination. In place of the regular striking attachment is a phonograp which can be set to speak a sentent at any time desired, thus becomin an unfailing reminder to its owner of the duties of each successive hour.

the duties of each successive hour.

Henrik Ibsen employs a curious aid in his writing, which is thus described in the Cosmopolitan. "Upon his writing table a visitor saw a small tray containing a number of grotesque figures, a wooden bear, a tiny devil, two or three cats (one of them playing a fiddle) and some rabbits. Ibsen has said: 'I never write a single line of any of my dramas without having that tray and its occupants before me on my table. I could not write without them. But why I use them is my own secret."

The Nurse.

The care of the sick can scarcely reach its mghest ideal save where personal attachment suppiements knowledge and skill. Therefore, it belongs to the life of every woman. There are few households, indeed, where any girl can grow up without some opportunities for this experience. Such opportunities may well be supplemented by lectures, courses of reading and well-planned demonstrations. If every woman could (as she should under ordinary circumstances undertake the care of the sick in her own home, this would but accentuate the value and raise the status of the "born nurses," who, never happy save in the special exercise of their gift, would then quite suffice for hospital cases and the grand occasions of major operations. The sight of the cap and veil of the hired trained nurse when imported into a household with women members scarcely raises one's ideas of the family morale!—Chambers'r Journal.

Kitchen Pastimes.

gridiron.

"Hoot! It isn't in it with the golf," answered the tea caddy.

"Baseball for me," retorted the pitch-

"Baseball for me," retorted the proceer.
"Prize-fighting's mine," said the mug.
"Cards for me," suggested the poker.
"Pshaw! Yatching's the only thing,"
remarked the gravy boat.
"Target practice for me," replied the
range.
"Curling," whispered the upstairs
maid's tongs.
"Ladles," said the potato masher.
"Hunting," hinted the poacher.—
New York Commercial Advertiser.

New York Commercial Advertiser.

New Uses For Blotting Paper.

The manufacturers of blotting paper find their market constantly extending. Here are some of the new uses to which it has been successfully put: It is employed instead of corks as stoppers for bottles, for capping the hammers of planes, tailors use it for stiff-enings in linings, jewelers find that it serves very well for polishing. Electricians have discovered that, treated with certain baths, it is an excellent none-conductor. In Germany bathing suits are made out of it. In hospitals it is used in place of linen for bandages, and after each dressing of a wound the bandage is burned.

Largest Induction Motor.

Wound the bandage is burned.

Largest Induction Motor.

What is said to be the largest induction motor in the world is in use at the Geneva water works, and is used in operating a centrifugal pump, runing at 455 revolutions per minute. This motor is of 100 horse power. It works on a two-plase circuit of 5000 volts. The combination is employed to pump water to a height of 460 feet.

Insect Eggs by the Ton.

It is difficult to comprehend the significance of the figures given by the report of the Argentine Commission for the extirpation of locusts, according to which in 1897-8 over 20,500 tons of these insects and over thirty-three tons of locust eggs were destroyed, and four-fifths of these in a single province, that of Santa Fe.

Needed.

The New Woman's Progress.

A number of ladies of Albuquerque have organized a rifle club, and nearly every afternoon may be seen practicing at targets placed in the western part of the city.—Albuquerque (N. M.) Journal-Democrat.

Jesse Feary, a legless and armless nmate of the Cincinnati workhouse, wrote a letter with his teeth, asking or a pardon.

Two large wooden shoes were sent through the mail to Frank E. Deerburg, of Holland, Mich. Twenty one-cent stamps were on each shot, arranged along the outer edge and over the instep so as to form an ornamentation.



How Mothers may Help

Every mother possesses information of vital value to her young daughter. That daughter is a precious legacy, and the responsibility for her future is largely in the hands of the mother. The mysterious change that develops the thoughtless girl into the thoughtful woman should find the mother on the watch day and night. As she cares for the physical well-being of her daughter, so will the woman be, and her children also.

When the young girl's thoughts become sluggish, when she experiences headaches, dizziness, faintness, and exhibits an abnormal disposition to sleep, pains in the back and lower limbs, eyes dim, desire for solitude, and a dislike for the society of other girls, when she is a mystery to herself and friends, then the mother should go to her aid promptly. At such a time the greatest aid to nature is Lydia E. Pinkham's Vegetable Compound. It prepares the young system for the coming change, and is the surest reliance in this hour of trial.

The following letters from Miss Good are practical proof of Mrs. Pinkham's efficient advice to young women.

Miss Good asks Mrs. Pinkham for Help.

Miss Good asks Mrs. Pinkham for Help.

"Dear Mrs. Pinkham:—I have been very much bothered for some time with my monthly periods being irregular. I will tell you all about it, and put myself in your care, for I have heard so much of you. Each month menstruation would become less and less, until it entirely stopped for six months, and now it has stopped again. I have become very nervous and of a very bad color. I am a young girl and have always had to work very hard. I would be very much pleased if you would tell me what to do."—Mrss Pra.R. Goof, Cor. 29th Avenue and Yeslar Way, Seattle, Wash.

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The Happy Result.

The Happy Result.

February 10th, 1900.

"Dear Mrs. Pinkham:—I cannot praise Lydia Pinkham's Vegetable Compound enough. It is tsimply wonderful the change your medicine made in me. I feel like another person. My ki is now a pleasure to me, while before using ir medicine it was a burden. To-day I am a lithy and happy girl. I think if more women ulture your vegetable Compound there would be a suffering in the world. I cannot express the left have experienced by using Lydia E. Pinkm's Vegetable Compound."—Miss Praki. Good. 20th Avenue and Yeslar Way, Seattle, Wash.

Blacksmithing Without a Fire.

A blacksmith's shop without a forge seems a novelty, indeed, but there are several in operation, declares the Chicago Inter-Ocean. In these shops there is applied a patent horseshoe made of a special steel which is soft enough to permit of its being hammered and shaped, as far as may be necessary, without heating. There are anvils here, and hammers are used, so that these time-honored accessories of the blacksmith's shop still remain here, but there is no fire, no bellows, with a grimy, swarthy, stalwart blacksmith waying on the handle with one hand, while he gently pokes the burning coal in the forge with the other. There is no smoke here and no flying sparks, nor is there the long familiar odor of the burning hoof when the hot shoe is laid up against it. These places are horseshoeing parlors.

One of these horseshoeing parlors.
One of these horseshoeing parlors, a corner. The shop proper, occupying the greater part of the space, opens on the side street. The office, or reception room, of the horseshoeing parlor, at the iront end of the store, occupies a square of space of the width of the building, and running back about a square of space of the width of the blacksmith shop.

On the floor of the office, or reception room, the reception room from the blacksmith shop.
On the floor of the office, or reception room, there is a \$200 rug; there are comfortable chairs about, for visitors of for customers, there is a desk for the manager, and there are potted palms. And all this is separated from the shop itself only by that office railing across the inner end of this reception room, beyond which one sees down the length of the shop men busily engaged shoeing horses in this blacksmith's shop without a fire.

Forestry—Its Need In This Country.

American forestry has not vet gone.

work to make a profit on timbeing. Thirty-five years is long to Mechan's Weekly.

Best For the Bowels.

No matter what alls you, headache to a sancer, you will inver get well until your bowels are put right. Cascamras help nature, cure you without a gripe or pain, produce easy natural movements, cost you just 10 cents to start getting your health back. Cascamers Candy Cathartic, the genuine, pat up in metal boxes, every tableth as C.C., stamped on it. Beware of imitations.

It is estimated that rural free mail de-livery is increasing the value of land in Colorado, where it is in operation, \$5

The distance from Liverpool, Eng. nd, to Halifax, N. S., is 2,450 miles.

A watch will tick 160,144,000 times in year if it is kept continuously running.