### AGRICULTURAL

Spraying Mixtures.

First are already at work on trees and cultivated crops and it is time to begin to fight or destroy them. A recent circular issued by the Agricultural Department with respect to the application of insecticides gives the following as a formula to becaused against tree bugs, plant lice and scale insects. Kerosene two gallons, water one gallon, common soap or whale-oil soap one half pound. For the treatment of the apple scab it recommends the following to be applied just as the flowers are opening, then 12 or 14 days later, and then twice more at similar intervals: Dissolve four pounds of copper sulphate in 10 or 12 gallons of water and stir in five pounds of washing or sal soda; then add three pints of strong aqua ammonia; dilute to 45 gallons. The circular advises that for the curculio on the plum, cherry, peach, etc., two or three applications be made during the latter part of May for the purpose of destroying the adults before they lay their eggs. Tender-leaved plants, such as melons and cucumbers, are injured by repeated applications of poison; while plants with smoother and firmer leaves; such as the orange, are little affected. Root plants, such as beets, turnips, radishes, etc., are but little injured; whereas foliage plants show what injury there is at once, and honey-bees are liable to be killed by the poison if applied when the plants are in bloom. The poison in all cases should be snow what i pury there is at once, and lioney-bees are liable to be killed by the poison if applied when the plants are in bloom. The poison in all cases should be lightly diluted, and following a rain another application should not be made for several asys. On the whole, the Department beleves from its investigation that insectitdes are not severely interious to vegetable (fc. and it recommends their use in moderate quantities and with discretion.

#### They Give Great Satisfaction

They Give treat Saustaction.

Taking Clydesdales and cart horses to England seems very much like taking coals to Newcastle. The London Graphic, of April 28, contains several illustrations of Canadian carriage horses sold at auction for good prices, and speaks most favorably of their appearance. A consignment of heavy horses was sold at the Barbican repository. Judging from the following remarks of the London Sporting Life they gave every satisfaction:

faction:

"The very large attendance at the Barbacan repository yesterday (Friday) was doubtless in a great measure due to the fact that a number of good class cart and van horses were to be offered for sale. A large quantity of contractors' stock was advertised to be sold without reserve, and the horses, arts and harness found new owners at good prices, but undoubtedly the great attraction was the consignment of Shire-bred and Clydesdale horses from Canada, which arrived in London only on Saturday last, and in consequence were not in what might be termed sale condition, but it was very evident that there were many good judges present who saw promising material in the 43 young cart and van horses which were disposed of without reserve. Under Mr. Rymill's hammer there was keen competition for them, and from 68 guineas to 35 they found ready purchasers. The second consignment now en route will be sold on May 13, as will be seen by advertisement in our columns, and as they are spoken of as superior to the horses just sold, there will doubtless be a large attendance at Barbican on the second Friday in May. The large quantity of miscellaneous properties were not all disposed of until past 8 o'clock, and the prices throughout the day must be conjidered good."

There is little doubt that a great future is a store for the Canadian horse trade. faction:
"The very large attendance at the Bar-

# About the Silo.

About the Silo.

In answer to the inquiry of a young farmer on certain points relative to the silo, Join Gould states that if a man can raise an acre of silago corn for \$9, and produce from it 18 tons of feed, he can easily put it in a sile for \$4 more. This would make the total cost 75 cts, a ton. The question of the silo, as has been repeated thousands of times, is only a matter of storing the corn fodder in the most succulent and easily digested conditive. Herein lies its great economy. The silo can add nothing. The situation is the same as with the canning of green corn. Our mothers used to cut the corn from the cob and dry it just as we cut up the corn fodder and dry it for the cow. When the grocess of canning came, preserving all of its actural juices in a fresh succulent state, werybody said it tasted better and was setter. The cow gives the same verdict shout good ensilage as against dry corn fodder.

There are thousands of dairy farmers who

er. There are thousands of dairy farmers who There are thousands of dairy farmers who have been halting between two opinions for years, full of doubt whether a silo would really pay. From our observation last winter in a tour of two months among New York and New England dairymen, we judged that there was much less progress in the East on this silo question than in Wisconsin. It would seem as if the larger expense of cattle foods in the East would make the silo a favorite there more than in the West. The situation shows, however, the great value there is to any community of farmers in agitation. In Wisconsin, through the missionary work however, the great value there is to any community of farmers in agitation. In Wisconsin, through the missionary work at John Gould in the Farm Institutes, Prof. Henry at the Experimental Station, and the strenuous efforts of Hoard's Dairyman and the agricultural press, an immense amount of silo information has been projected into the minds of our farmers. It has borne fruit in the way we have indicated. In many townships in this state a majority of the dairy farmers have provided themselves with a silo. They have not yet come to a silo they have not yet come to a silo they did, they would provide for ensilage to feed during the dry pastorage in summer. Serious loss in the shrinkage of milk just as it is just beginning to increase in profit, would be avoided if they would this. Then again, the majority run out of ensilage too early in the spring. The sharp little object lesson we gave last week, showing the rapid shrinkage of milk in the dairy of Mr. Whiting of this vicinity, when his ensilage gave out, told the story in dollars and cents. The wise dairyman should calculate to provide if possible at least seven tons of ensilage per cow. That will usually give a surplus that can be used in summer. But that surplus, if designed for summer use, should be put in a silo by itself and not opened until it can be steadily fed down. It is easy to calculate the necessary amount per cow by the following rule: Five tons opened until it can be steadily fed down. It is easy to calculate the necessary amount per cow by the following rule: Five tons of ensilage will provide sufficient ensilage for 200 days, which is about the length of the foldering season in these northern latitudes. This will require a scorage capacity of 200 square feet. Multiply the number of cows to be wintered by 200 and it will give the storage necessary for winter use. Then provide in a separate silo 80 square feet per cow, for soiling during drouth in summer. If it is not required it will be just as good for the coming winter. for the coming winter

The population of the world is nearly 1,500,000,000.

Farmer Tompkins and the Cyclopædia-

A feller came out here to-day 'n' showed a book to me; One 'ad' a surely oughter have—twelve parts, He said on the process of the said of the process of the said of the said

"Tells ev'ything!" says I. "That's good—in fac', sir, that's the best Kind of a book I ever seed, but think I'd like a Before I buy her. Lemme see! What does the volume say the volume say
About the prospects of the comin' year for oats
"n' hay?"
I thought he'd flop for laughin' when I ast the
feller that.
N' when I ast him "What's the joke?" he look

feller that. hen I ast him "What's the joke?" he look ed almighty flat, "It don't prognosticate," says he. "That ain't
"The p'int!" says I.
"What I'm a-astin' you is will the blame thing
prophesy?"
N' then he turned the pages quick, 'n' showed
me lots o' stuff
About Egyptians, and a squib about an Earl
named Duff.
But when I ast him if it told a cure for tater
bugs.

bugs, He said it didn't, but it had a history of rugs! 'Nd I'll be derned if that there book he said would tell so much. Had anything on any page I'd ever care to

thy then—haw! haw!—I chucked that pert
young swindler from the place
So quick he hadn't time to take his smile down
of his face;
'Nd after him I threw his bag 'n' twelve-part
Mc Cyclopee— My great-grandfather's almanac's still good enough for me!

Fair Bands.

-[Harper's Magazine.

BY S. W. JEWE TT. Long time ago—it matters not how long; Love keeps not coord of the days'or years, Nor cares to ask why youth's exuitant song Should move the sun to gladness or to tears— We were together at that dreamy hour, When hearts grow fond and tender, And with a glad surrender We yielded, willing captives to its power.

'Twas then you placed your tiny hand in a Soft as a downy feather there it lay, I gazed upon it as a thing divine, Which might take sudden wing and

which imputes a way.
But soft it nestled like a timid dove,
In my broad, brawney palm.
The while a brooding calm
Stilled the tumultuous current of my love. The spell thus wrought in passion's fever heat; Hath held its sway through all these change-

Hath held its sway through all these enangeful years.
As potent as when kneeling at your feet
Love's o'erwrought frenzy melted into tears.
I hold your hands, not fair as once they were,
But dearer than of old—
Oh yes, a thousand fold,
Each line a record in love's calendar.

The hieroglyphics which to other eyes
May seem the random touches time hath

May seem the random touches time had, made,
made,
To me reveal life's deepest mysteries,
Illumined missals which can never fade.
Romance so vainly sought in printed page
My spirit here discerns,
And trucr wisdom learns,
Than eyer stored the brain of seers or sage

Oh, let those hallowed fingers closer twine.

I cannot see through tears that little palm,
But while I hold it closely clasped in mine,
My spirit reles again that brooding calm,
Which woman's love in grief or gladne
brings

brings
From the first rapturous hour
When conscious of her power,
When conscious of her power,
She touches manhood in its purest springs,
—[New York Home Journal.

Moonrise.

I see a stretch of shining sky Like some fair ocean sunset lit, Peaceful and wide its spaces lie, And purple shores encompass it A little slender silver boat Upon his bosom is afloat.

This craft, unstayed by winds or tides, Slibs out across the twilight bar: Through rosy ripples, soft she glides, Led by a single pilot star; With shadowy sails and fairy cre She drifts along the summer blue

She's filled from stem to stern with flowers,
And Love, and Hope, and Happiness,
Willought of what she brings be ours?
Ah me! if we could only guess!
She rides clusive and remote,
This little slender silver boat.
FRANCIS WINNE.

A good story is told of an innocent old lady who never before had ridden in a train.

lady who never before had ridden in a train.

She was a passenger on one of the English Midland railways at the time of a recent collision, when a goods train ran into a passenger train, smashing one of the cars, shaking the passengers, and upsetting things generally. As soon as he could recover his scattered senses, the guard went in search of the venerable dame, whom he found sitting solitary and alone in the car (the other passengers having sorght terra fruma), with a very placid expression upon her countenance, notwithstanding she had made a complete somersault over the seat in front, and her bandbox and bundle had gone unceremoniously out of the window.

"Are you hurt?" inquired the guard, "Hurt! Why?" said the old lady.

"We have just been run into by a luggage train; and many of the passengers are shaken," said the guard.

"La, me! L didn't know but that was the way you always stopped," was the old lady's remark.

# Whey is Intoxicating.

Whey is Intoxicating.

Prof. Robertson, Dairy Commissioner, for Canada, says that he once saw 70hogs drunk, made so by the alcoholic fermentation of whey upon which they were being fed. They acted about the same as the nobler animal might act under the condition, some being funny, some quarrelsome and others stupid. He did not think it a good plan to allow the whey to ferment, and he cautioned his hearers against the swill barrel, which is made a receptacle of all the house waste, and is never quite cleaned out. By fermentation it becomes dangerous to feed after standing long.

# EXPLOSION ON A SHIP.

hen Last Seen the Vessel was Sinkin 200 Miles from Land.

When Last, Seen the Vessel was Sinkin 200 Miles from Land.

A despatch from San Francisco, says,—
The steamer Williamette Valley arrived here to-day with the crew of the ship St. Charles, coal laden, for San Francisco from Nanaimo, and which was wrecked off the Oregon coast on May 17, by an explosion. On the morning of the explosion Michael Flynn, the second mate, and a sailor, named Lenberg, went to the fore hatch to get some pota'oes. They had hardly disappeared through the hatch when the explosion took place. Flynn and Lenberg were thrown some distance in the sir, and fell on the deck. Both were badly injured and burned. The ship was generally wrecked by the force of the explosion. The rigging was set on fire and the pumps would not work. Capt Chapman was found in his cabin pinned to the floor under the furniture. His spine was broken. The men hastened to lower the three boats that belonged to the ship, and abandoned her in a short time.

When last seen the mainsail was on fire, and the ship was going down gradually. At the time the vessel was 200 miles from land. The crew, nineteen men in all, succeeded in making Cape Foulweather in safety. The Captain died. Flynn and Lenberg were taken to Newport, Ore. Flynn is not expected to live.

Expenses of a Society Girl

Society admits that a girl can live fairly on \$6,000 a year, but to live as most of her friends do she needs at least \$15,000, says the New York Morning Jossanal. That sum will permit of her entertaining in a small way, of giving an occasional theater or luncheon party, of keeping her brougham or hansom, or of dressing well. That is, if she lives at home; otherwise it cannot be done. Miss Flora Davis spends that sum without taking into consideration her carriage, and Grace Wilson, the pretty sister of Mrs. Ogden Goelet, disposes of a similar sum without any difficulty. Miss Mae Knowlton, the Brooklyn beauty and heiress of \$3,000.000, spends nothing like her income; still few girls are more generous or lavish in their expenditures. The Turnure girls are also good dispensers of money, Jeanne spending quite a snug competence upon her tailormade gowns alone. Miss Helen Gould is sparing in her expense, once remarking not many years ago at school to the writer, that she was not even allowed to have a seat in church. At that time she attended Dr. Paxton's church, but Mr. Gould had not become one of its shining lights. Miss Helen Phelps Stokes also manages to get away with what ordinary mortals would be pleased to consider a fair income.

How is it done? As casy as—well, as it is to spend money. First of all, the fair lady must have a maid. A maid more than pays her own wages by her care of her mistress' clothes—the brushing, cleaning, and mending of them. The little rents in the gloves are concealed by her deft fingers, making them answer instead of a new pair, and by "treeing" mademoiselle's boots every night they are made to last twice as long. Annette receives \$25 a month—\$300 per year. Mademoiselle's brougham will cost her, including the stabling for three horses, coachman, groom, sheeing, and various expenses, \$2,500 a year. Two saddle horses, her own and one of her groom, call for \$75 a month. A yearly trip to Europe, spending six weeks in London, two in Paris, and two at Aix-les-Bains, or some equally fashionab

Kathleen Mavourneen.

(From the Indianapolis Journal.)

And the Care as thertill of the birds, the law of the Markey hearts it is sobbing and sing.

The Agenth and as clear as thertill of the birds, the law of the Markey hearts it is sobbing and sing.

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The Agenth and as clear as thertill of the birds, the law of the Markey hearts in the Markey hearts in the Markey hearts and the grown have not been mentioned. Three tailor suits, one for automa, another for wineer, and a think is thirsty cars drink in so greedily. The Markey hearts are the same figure (very low, 1800. Four better ones for occasions the way), \$1800. Four better ones for occasions was the markey hearts at \$350 each. Four dinner gowns are \$350 each. Four dinner

Two saddle horses
European trip
Lakewood visit.
Fortnight at Tuxedo.
Flying visits to Washington
Boots, shoes, and slippers.
Hairpins and toilet articles. Millinery ..... Gloves ..... Odds and ends Total ....

Willie's Reply

Willie's Keply

Willie's Keply

The teacher, who had just given a lesson on wool, having told the class that wool comes off the sheep, and is made into blankets, clothing, &c., to keep us warm in cold weather, proceeded to question little Willie who had been rather inattentive during the lesson.

esson.

"Now, Willie," said the teacher, where does wool come from?"

"Off the sheep's back, teacher," replied

Willie. "And what then?"-inquired the teach-

cr.
Willie could not answer.
"What were these made from?" asked
the teacher, touching Willie's knickers with
the cane.
"Uncle John's old uns," Willie smartly
replied.

# Not Knowing I know not what will befall me! God hangs a mist o'er my eyes; And o'er each step of my onward path He makes new scenes to arise, And every joy he sends me comes As sweet and glad surprise.

I see not a step before me.
As I trend the days of the year.
But the past is still in God's keeping.
The future his mercy shall clear,
And what looks dark in the distance
May brighten as I draw near.

For perhaps the dreaded future Is less bitter than I think; The Lord may sweeten the wate Before I stoop to drink; Or if Marah must be Marah, He will stand beside the brink.

It may be there is waiting
For the coming of my feet
Some gift of such rare blessedness,
Some joy so strangely sweet,
That my lips can only tremble
With the thanks I cannot speak.

O restful, blissful ignorance!
T is blessed not to know;
It keeps me quiet in those arms
Which will not let me go,
And husbes my tired soul to rest
On the bosom that loves me so.

So I go on, not knowing.

I would not if I might:
I would rather walk in the dark with of
Than go alone in the light;
I would rather walk with I mm by faith
Then walk alone by sight.

My heart shrinks back from the trials
Which the future may disclose,
Yet I never had a sorrow
But what the dear Lord chose,
So I send the coming tears back.
With the whispered words, "He kno

# Golden Thoughts for Every Day.

Monday —

Thou art the Everlasting Word,
The Father's only Son;
God manifestly seen and heard
And heaven's beloved One;
Worthy, O Lamb of God, art Thoo,
That every knee to Thee should boy

In Thee most perfectly exprest
The Father's glories shine;
Of the full Deity possest.
Eternally Divine;
Worthy, O Lamb of God, art Thou,
That every knee to Thee should bow.

Eternally Divine;
Worthy, O Lamb of God, art Thou,
That every knee to Thee should bow,
—I Josiah Conder,
Tuesday—Penitence is of primary importance in the experience of religion. Repentance in the experience of religion. Repentance toward God and faith in our Lord Jesus Christ are first 'principles of the gospel. Prevenient, soliciting, energizing grace secures the 'place' and 'power' of both, but the use of opportunity and the exercise of power are our own responsible acts anticedent to the justification and the sanctification of life. Repentence is not faith. They are concurrent but distinct exercises. Repentance is retrospective, introspective, and sad—sees Sinai, self, and sin. Fath denies self, takes up the cross and follows Jesus. Repentance is preparation for Christ, and faith enters the kingdom, receives Christ. Repentence is the ending of the law, and taith is the beginning oi the gospel. The former brings us to Christ, the latter brings Christ to us.—(D. M. Tompkins.
Wednesday—So a fool is one that hath lost his wisdom and right notion of God and divine things which were communicated to man by creation; one dead in sin, yet one not so much void of rational faculties as of grace in these faculties, not one that wants reason, but abuses his reason. In Scripture the word signifies foolish.—[Philip Charnock.

Thursday-

True image of the Infinite,
Whose essence is concealed;
Brightness of uncreated light;
The heart of God revealed;
Worthy, O Lamb of God, art Thou,
That every knee to Thee should bow. But the high mysteries of Thy name
An angel's grasp transcend.
The Father only -glorious claim!
The Son can comprehend:
Worthy, O Lamb of God, at Thou,
That every knee to Thee should bow.

Yet, loving Thee on whom His love Ineffable doth rest, Thy glorious worshippers above As one with Thee are blest; Worthy, O Lamb of God, art Thou, That every knee to Thee should bow.

Throughout the universe of bliss,
The center Thou, and Sun.
The eternal theme of praise is this
To heaven's beloved One:
Worthy, O Lamb of God, art Thou,
That every knee to Thee should bo

Date of the Exodus.

What was the precise date of the Exodus from Egypt? A German astronomer, according to one of our contemporaries, has solved this knotty problem. Jewish tradition gives the date as the 1st Nisan, 1312 B. C. In order to test this our astronomer has assumed that the Egyptian darkness which immediately preceded the Exodus was an eclipse. Hehas, consequently, calculated all theeclipses of the thirteenth and fourteenth centuries B.C., and, having selected those which took place in the spring, has then chosen from them those which come nearest to the date given by the Jewish tradition. The eclipse he finally selected was one which took place on March 13, 1335 B. C. It is curious to note that this date agrees with Jewish tradition, so far as the month and the day are concerned. The year is, however, twenty three years out. The astronomer declares that this is a mistake of the Jewish historians, since no eclipse occurred in the year 1322 B. C. He seems to forget that the alleged darkness is described in the Scriptures as having been a miracle. However, the result of his calculations is to show that the Exodus took place on March, 27, 1335—a discovery which will be appreciated when our iconoclastic reformers lay violent hands on the Jewish celendar. curious to note that this date agrees with germinal contents of the day are concerned. The year is, however, twenty three years out. The astronomer declares that this is a mistake of the Jewish historians, since no eclipse occurred in the year 1322 B. C. He seems to forget that the alleged darkness is described in the year 1322 B. C. He seems to forget that the alleged darkness is described in the Scriptures as having been a miracle. However, the result of his calculations is to show that the Exodus took place on March, 21, 1335—a discovery which will be appreciated when our iconoclastic reformers lay violent hands on the Jewish celendar.

Theatrical Advertising.

Advance Agent: "Hi, there! What are you doing with that pistol?"

Discouraged Dude: "Going to kill my self."

Advance Agent: "Well, hold on a minute. "If you're bound to do it, won't you be good enough to leave a note saying you to the form the love of Miss Starr, the beautiful actress. It's a dull season, and every little helps,"

ELECTRICAL PROGRESS IN BRIEF.

It is reported that Mr. Sims is engaged in adapting the Sims-Edison electric motor and propeller to life boats, to furnish not only power, but a search light.

It is stated that M. Faure has recent invented a process of producing adminious by which he hopes to reduce the price of this metal to 16 or 18 cents a pound.

this metal to 16 or 18 cents a nound.

A recent catalogue of electrical books in the Boston Public Library gives nearly 1,000 titles of books on electrical subjects, exclusive of the telegraph and telephone.

The Road Car Company of London, England, has fitted up a number of its vehicles with electric lamps, fixed to the middle of the roof,—an improvement highly appreciated by the passengers.

A prize is offered by the Industrial Association of Berlin of a gold medal, value £150, to the author of the best work upon the magnetism of iron, to be sent in before the 15th of November, 1893.

Mr. John Messenger of Cincinnati, O.,

Mr. John Messenger of Cincinnati, O., claims to have found a process by which he is able to electroplate iron, steel and coper with aluminum. The deposit is said to be as hard as nickel, never tarnishes, and does not fuse readily.

afterwards recovered consciousness.

The new Winkler storage battery consists of V-shaped troughs of celluloid, having a metalic conductor lying along the bottom, the trough being filled in with peroxide paste. It is claimed that the conductor can be made of sufficient carrying capacity to dispense with lead frames altogether. The electrolyte may be liquid, or semi-solid for portable uses. The weight of cell, it is stated, is reduced 40 or 50 per cent. of that of lead plate accumulators.

A new storage battery is being employed

ed, is reduced 40 or 50 per cent, of that or lead plate accumulators.

A new storage battery is being employed on the Chesapeake & Ohio Railroad for use in connection with electric lighting of its cars. Twenty-four cells are placed under cach car, and they supply eight sixteen candle-power lamps on the round trip from Cincinnati to Washington.

The rew bridge across the ship canal at

Cincinnati to Washington.

The new bridge across the ship canal at Duluth, on Lake Superior, is to be 250 feet in length, and is designed to carry electric cars, and trains of them, as well as horse vehicles and pedestrians. It rests on its foundations seven feet only from the water; but, to allow ships to pass, it can be elevated 133 feet,—being so nicely balanced between towers 190 feet high that from 20 to 30-h.p. will suffice to lift it and lower it within five minutes. It is to be operated by electricity.

within five minutes. It is to be operated by electricity.

Prof. H. A. Rowland of John Hopkins University, says: "It is a well-known principle that an electrical discharge will dissipate a fog, and no patent could be obtained on the mere application of the principle. It is a very common laboratory experiment to make a fog or mist in a glass vessel, and, by sending electricity from a point into it, to dissipate the mist. As soon as the electrical discharge strikes into the fog, the glass instantly clears." He has not seen any attempt to dissipate a thick marine fog, and doubts its practicability. Mr. M. E. Johnson of Pittsburg, however, designs applying for a patent on a process for this purpose, having made several successful experiments.

Christmas Trees in China.

The Christmas tree in Europe, which, like the yule log, is a survival from the festival of the revival of the sun after the winter solstice, finds its counterpart in China as elsewhere in the world. Dr. Schelgel has recently pointed out the historical references to this subject. n. Dr. Schelgel has recently pointed out the historical references to this subject. According to the "Antiquities of Tsin," an old principality which lasted until 247 B. C., the tree with a hundred flowers and lamps, was placed, on New Year's day, between the three steps leading to the audience felicitation hall. The lady Han-Kwoh, the celebrated Princess Yang, the all powerful favorite of Ming tuvang. Emperor of the Tang dynastry (A. D. 713-755) caused a "hundred lamp trees," 80 feet high, to be erected upon a high mountain; it was lighted during the New Year's night, and its shine was seen for a hundred miles, totally eclipsing the light of the is aware the Christmas candle-tree is now no longer lighted in China, it being replaced by the enormous quantities of candles which are lighted everywhere.

Advertising in the Sky.

Trust.

My little craft sails not aloue;
A thousand fleets from every zone
Art thou upon a thousand seas;
And what for me were favoring beeze
Might dash another, with the elock
Of doom, upon some hidden rock.
And so I do net dare to pray
For winds to waft me on my way.
But leave it to a higher will
To stay or speed me, trusting still
That all is well, and sure that he
Who launched my bark will sail with me
Through storm and calm, and will not fail,
Whatever breezes may prevail.

Then, whatsoever wind deth blow, My heart is glad to have it so: And, blow it east or blow it west. The wind that blows, that wind is best.

# The Proper Way to Sit.

The Proper Way to Sit.

A proper sitting position requires that the spine shall be kept straight, and that the support needed for the upper part of the body shall be felt in the right place. Therefore, sit as far back as possible in the chair, so that the lower end of the spine shall be braced against the back of the seat. If this back is straight the shoulders will also rest against it; if not, they will have no point of support, and it will be found that they do not need it. This position makes no strain upon the ligaments of the spine. It allows a proper position of the shoulders, consequently of the chest, consequently of the chest, consequently of the body.

claims to have found a process by which he is able to electroplate iron, steel and copper with aluminum. The deposit is said to be as hard as nickel, never tarnishes, and does not fuse readily.

A citizen of Cambridge, Mass., protects his ears from cat concerts and his fruit and flowers from juvenile thieves, by means of a strip of zinor running slong on the top of his garden fence, and connected with the electric wires in his house. Neither the eates nor the boys are injured thereby, except from their own wild jumps when they touch the zino.

Schuckert, the Numemberg electrician, showed at the Frankfort electrical exhibition a six-foot electric search light, having the power of 20,000 candles. It could be plainly seen at Bingen on the Rhine, forty miles away. He is now at work on a larger one for the Columbian Fair, which will measure seven and one-half feet, and be of at least 25,000-c.p. He expects its light to be visible sixty miles.

The railway car known as "Placer Counter on Wheele" (a traveling combination intended primarily to advertise the profific fruit region of Northern California) is lighted in interiorly and externally by sixty-five incandescent lamps, which are operated by a complete lighting plant in a corner of the car. The service is so satisfactory that Mr. Leak, the owner, is now figuring for the equipment of an entrier train with similar apparatus.

A French paper reports that the microphone has been successfully used in St. Petersburg in a case of suspended animation, where the patient was given up for a microphone to the region of the low and the constitution of the seating and plied a microphone to the region of the low and the constitution of the seating and the dispiragen, thereby increasing the hands behind the back, if possible, is a good attitude to take occasionally and microphone to the region of the conductor of the seater of t

### The Minister's Reply.

A minister in the North was at a small party one evening. After they had gone through several games, an old dame asked him if he would say yes to every question put to him.
"I will," he replied.

"I will," he replied.

Then and there the young ladies commenced to try and corner him, but so far they were unsuccessful. At last one of them, more bold than the rest, got down on her knees before him and said, "Will you marry me?"

"Oh, yes; but where is the bridegroom?" was the answer.

# Perfumes the Horse Likes.

There are some perfumes that are very grateful to horses, however little credit a grateful to horses, however little credit a horse may commonly receive for possessing delicacy of scent. Horse trainers are aware of the fact and make u e of their knowledge in training stubborn and apparently intractable animals. Many trainers have favorite pertumes, the composition of which they keep a secret, and it is the possession of this means of appealing to the horse's estheticism that enables so many of them to accomplish such wonderful results.

# It Puzzles the Jewellers.

In fuzzies the dewellers.

Imitation gold is a new compound which was recently discovered, and which puzzlet the best jewellers to detect. Its weight is that of gold and the acid tests are the same, except that the acid boils a trifle when applied to it, although when it is wiped off no spot is left. It is cheap and it is easily worked. Its chief factor is aluminium composite from 5 ta 8 per cent. posite, from 5 to 8 per cent.

# The Electric Shock.

Bride (throwing her arms about his neck):
"You are my prisoner for life."
Groom: "It's not imprisonment for life;
love; it's capital punishment."

# Orders To March.

A little fellow was taken into his mother s chamber to see for the first time a baby brother. The three-year-old looked the infant over with a calmly critical regard, and then, turning to the maid who accompanied him, he said, very decidedly:

"Jane, you can keep that in the kitchen."

A Regular Dilemma.

-I am in a hideous pickle. B.—How so?

A.—I have not got anything to eat, and the only thing I've got to pawn is my false teeth, and If'I pawn them and buy something to eat then I can't eat it. I never was in such a hideous fix in all my life.

Female Friendship.

"I have such an indulgent husband," said little Mrs. Murray Hill. "Yes, so George says," responded Mrs. Uppercrust quetly. "Sometimes he in-dulges too much, doesn't he?" They no longer speak to each other.

Centredictory Ividerce.

The Rev. Texte: "There were apparently no poor people in the congregation this morning, Deacon Cashly?"

Deacon Cashly (who is also treasurer): "If you had seen the collection you would have thought just the contrary."

Among English people dark brown hate is more than twice - common as hair of any other shade.