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## ghtassey-急arris fillustrated

## A Journal of News and Literature for Rural Homes.

New Series, Vol. IV., No. 5.] SEPT.-OCT., 1900. [Whole Series, Vol. XVII., No. 5.


THEIR LAST SEPTEMBER.
(From a Painting by 1thakv Srassart, R.b.A.)

## THE USE OF ENSILAGE.

No farm barn is considered complete without a wellconstructed silo for the storage of ensilage.

Neither is the progressive farmer's list of implements complete without a first-class ensilage cutter.

## mm MASSEY-HARRIS ENSILAGE CUTTER


is well known in all parts of the Dominion, and its reputation is established.

It cuts three different lengths, and Carriers are furnished in 8, 12, 16, 20 and 24 -foot lengths and upwards in multiples of four feet.

## Massey-Harris Illustrated

## A Journal of News and Literature for Rural Homes.

New Serles, Vol. IV., No. 5.] SEPT.-OGT., 1900. [Whole Serics, Vot. xvill., No. 5.


THE assassination of King Humbert of Italy on July 2gth last, by Gactano Bresci, filled the whole
world with horror. The murdered monarch, a recent portrait of whom provides our initial illustration, was of

[Rlu: Zondon Neros.
a singularly lovable disposition. IIe loved his people and they loved him. He was wont to pooh-pooh the demands of his officers of state that he desist from lus habit of going about without proper protection against just such an attack as that which has filled all Ital3 with sorrow. There are several ills which humanity is subject to which are declared to be fatal on the third attack. Assassination appears to come within the category -at least it did in the case of King Humbert, the taking of whose life had been attempted on two previous oceasions, when he succecded in es. caping unitsjured The third attack, however, was fatal. Personally, the Italian monarch was one of the most courageousof men. When the cholera was mging in Naples a few years ago, he went among the pationts in the huspitals, and even into the mfected homes of handreds of those who had sulfered bereavement. totally disregarding-like the fatal.st that he was-the protestations and warnings of those who, apart from thetr petsonal regard fur him, saw in has act more than the during of a man-kind-loving hero, but the recklessness of a monarch whose life was jeopardized and on whom depended vital political,

[llus. Iondon News. assassinayton op tire kinc op itals:
if not dynastic, issucs. At the time he fell a victim to the assassin's revoluer. the King was about to lease Monk, where he had been distributing prises. He had entered his carriage and wis driving away amidst the cheers of a large multitude when the assassin dashed forward, sprang on the stejs and fired three shots with fatal effect. Thus died a monarch whom men of lesser degree might well strive to cmulate in unflinching devotion to duty, even being " $s$ tead. fast in that which is least."

Sorrow has entered other royal households since ourlast issue, and while bearing the heavy burden of seeing her country at war, our own venerable Queen has been stricken with domestic woe, death carrying off her second son, Prince Alfred, Duke of SaxeCoburg Gotha, or, as he was more gen erally known io Het Majesty's subjecte. the Duke of Edinburgh The death of the Duine. from a sudden cattack of par alysis of the heart, was, in all prohahil ity, a merciful visitation, as it saved him from the agony of a lingeling $d$ ath from cancer of the tonguc, with uhicb he uas afficted Not only has the Queen to mourn a son dead, but shie is called upon to contemplate her favorite

[1/las. Lundun Nicins.
THE PRINCE OF WALES, THE DUKE OF CONNALCUT, AND THE EATE DUKE OF EDINBURGH.
daughter, the Dowager Empress of Ger- much we know: the legations, all conmatys, sinking slowly but surely th the grave from an attack of cancer of the breast, the directresult, the doctors declare, of her personal attendance uponthelate Emperor Frederick.
What will be the final vutcome of the trouble in Chana is a question that not evin the mosi daring Wualdat temint to antswer. This


15lack and I'hute.
storxino of the shinu arsenal at tien tsin.
nected with which were supposed to have been massacred over two months ago, have been relieved; the foreign forces occupy Pekin; the Emperor, Dowager Empress and courtiers have fled from the capital; I, i Hung Chang has been empowered to negotiate peace with the powers, andmission. aries of dif-
ferent nationalities and thousands of native Christians have been massacred, after being subjected to the most revolting
hard fighting, forced marches through difficult country and a heavy loss of life, although the slain on the Chinese

boXers enrolling at a military post.
[Illus. London News.
torture. The success of the allied forces side exceeds that of the allies by has only been accomplished by much twenty to one.

On page 189 we present an illustration depicting the storming of the Shiku arsenai at Tien Tsin by the marines. An officer who took part wrote: "At one corner we had a nasty job turning out the opposite side, but we turned their own guns upon them, and killed a great many of them."

The illustration on page 190 conveys some idea of a Boxer military post. Along the roads of China are encountered great numbers of military posts at which small garris ons, about ten or fifteen soldiers in time of peace, are stationed. Close by is a look-out commanding an extensive prospect. The cones of brickwork and plaster are used to fire a fierce combustible in time of alarm as a signal to the next post. They are also employed on all festive occasions. It is here that the Boxers now enrol themselves and are sworn in to form their semi-military corps. A Government official belonging to the army presides at the table. He is, as the umbrella indicates, a mandarin of consideration.
Probably the two strongest indivi duals in China are the Dowager Eimpress, an article on whom we shall publish in our next issue, and Li Hung Chang, who visited Canada five years
ago, and whose portrait appears below.
The illustrations on the three following pages depict different characteristics of Chinese life.

While Lord Roberts has formally annexed the Transvaal as British territory, the war is not over; but it has resolved itself more or less into a species of guerilla warfare, and it can only be a question of a few weeks before Kruger and Steyn look their last, for a few
 years at least, on the countries they so wantonly misgoverned. We presenta single illustration from the South African battle fields, but it is one of considerable interest, portraying one of those too many occasions when our troops fell into an ambush laid for them by the Boers. The correspondent of the Illus. trated London Newes thus describes it: "The fight at Sanna's Post, twenty miles from Bloemfontein, was the result of a cleverly planned ambush by the Boers. A force consisting of the Composite Regiment, ioth Hussars, some Mounted Infantry, and the $Q$ and $U$ Batteries of Royal Horse Artillery, had fallen back from Thaba Nchu after being joined by the advanced post from Ladybrand, and had camped at Sanna's Post to protect the waterworks there. Awakened at dawn the next day by


chitnesit ciraractekistics:
[1/7us. London News.
TIE HOY SOLDIERS OF CIINA IN XEVIRW ORDER.
heavy shell fire, the convoy was hastily inspanned and despatehed to the west towards Bloemfontein with the Horse Artillery. Meamwhile the Mounted In-
fantry and Cavalry lined a ridge to coser the retirement. The convoy had scarcely proceeded threc hundred yards, and the nen were still engaged in eating

their breakfast, when the enemy opened fire from a donga in front, eighty yards from the head of the convoy. The rifle
teams of four guns, their drivers being shot, stampeded out of action."

It has been by their aptitude for this

fire was deadly. Scenes of confusion followed, the mules and oxen plunging and kicking out in all directions. The
species of warfare that the Boers have been able to prolong the struggle, the end of which is only now near at hand.


## Curing a Grumbler.

$\mathbb{A}$GIRL was walking briskly down the maia street of a little country town. Her springing gait told of a generous vitality, and her cheery face was pleasant to look on But a little eloud fell over it as she neared her destination, and her pace involuntarily slackened.
"How I wish it were over!" she murmured under her breath. "What a penance it is to go and see Aunt lucinda!"
Then a tiny gleam came into her eyes, and she gave lier lead a decisive nod.
" 1 don't feel in the humor to stand much nonsense., " she thought. "And if Aunt Lucinda begins to air her grievances in her usual fashion, she will be very likely to hear a piece of my mind."
She gave a sharp rap at her aunt's door, a rap which was promptly answered by a neat little maid, whose eyes brightened at sight of the visitor.

Good morning, Mary," said Bessie. in her usual genial fashion. "Is Miss Barrett at home? "

Yes, Miss Bessie, " responded Mary. "Please come in."
She led the way to the room where her mistress was sitting. Miss Barrett did not rise on her niece's entrance, but sat in solemin state as Bessic went briskly fonvard.
"Good morning, Aunt," said Bessie, kissing the cheek that was frigidly offered. "How are you this morning?"
"Oh, I don't know," responded Aunt Lucinda, with a slight groan, "I don't know how I am."
Bessie was too well used to her aunt's peculiarities to feel any astonishment at this reply. Slie sat down, however, wondering upon what topic it would be safe to begin.
"I can hardly believe that you have come to see me," said Miss Lucinda, in an injured tone, with a strong emphasis on the "me." " None of you care anything about me."
Bessie's face flushed slightly. but she made no reply. She had met the same accusation so many times that she was thoroughly tired of trying to justify herself.
"How is Mary getting on ?" she inquired, by way of turning the conversation.
" Mary? Oh, as bad as all the rest." returned Aunt Lucinda.
She sighed heavily, and fixed reproachfuleyes on poor Bessie, who somehow began to feel a guilty responsibility with regard to Mary's shortcomings.
"I thought Mary seemed a very decent girl," she ventured to say
"That is just as much as you know about it," responded Miss Barret, with sudden energy. "She worries me, and hurts my fecings continually. But of course you don't care! It is nothung to you."
"She is oniy a child," pleaded Bessie, on behaff of the delinquent.
"She is quite old enough to know better," said Aunt Lucinda. "And after all I have done for her! But there is no gratitude in this world.
She sighed again, and Bessie uncomfortably wondered what had better be said next.
"Have you seen Letty lately?" she ventured.
"Oh dear, no!" answered Aunt Lucinda, looking more martyr-like than before. "It is quite three months since Letty came near me. Her mother says she is busy, but she cari find time to go to your Aunt Anna's. It seems to me you can all very easily find the way to your Aunt Anna's, but you forget where I live."
" Indeed we don't, aunt! " said Bessic, roused to some show of self-defence. "You know Kitty was here only a day or two ago."
"Yes, and I was sorry to sec how frivolous she appeared to be growng." replied Aunt Lucinda, with a shake of her head. "The first thing she did was to ask me how I liked her new hat. I told her I had more important things than hats to think about."
"But Kitty is so pretty," said Bessie, taking up the cudgels on behalf of het sister. "She can't help thinking a little of how she looks, you know.
" Favor is deceitful, and beauty is vain." quoted Miss Lucinda, with 3 solemn shake of the head. "A girl has no business to bestow thought up on fecting vanities."
"Most giris do," said Bessie, in her direct way. "After all, aunt, we are only young once. And if little things make us happy why shouldn't we have them?"

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"A most heathenisl way of talking," responded Aunt I.ucinda. "At this very moment, Bessie, you, I segret to see, are wearing round your neck a lace scarf, which 1 do not suppose was bought for less than half-a-sovereign It is not really necessary, it adds in no way to your comfort
"Oh, it does! "broke in Bessie, with a laugh. "It is a decided comfort to feel that I look nice."

Aunt Lucinda was horrified. That a girl-and that a girl her own nieceshould deliberately express the belief that she looked "nice," was contrary to all her ideas of decorum.
" In my young days it was not customary for girls to fatteringly comment upon their own appearance,' 'she said, tcily. "But, putting that matter altogether aside, have you refiected that that half-sovereign might have been given to the poor?'

Bessie flushed.
"I do not want to be selfish, aunt." she said, gently, " and I hope 1 do not forget those who are in need. But have you reflected that if nobody wore pretty things trade would suffer, and the number of poor be greatly increased? "

Aunt lucinda looked slightly nonplussed. Then: "People can generally find a reason for doing as they like," she sard, disagreeably. "But I am thankful I have nothing of the kind on my conscience."
Bessie looked at the thin angular fgure, and the hard, sour face. She suddenly felt sorry for Aunt Lucinda. Life, bereft of love, grace, and beauty seemed a hard thing
But Miss Lucinga returned to the charge mercilessly.
"I met young Will yesterday with a Gower in has buttonhole. Violets, if you please! I did not forget to stop and tell him what I thought about it. A derk on $\& 80$ a year sporting buttonboles. I have no patience!"
Bessie's eyes began to look ominous. She loved her brother exceedingly, and sone knew better what a good, steady lad he was.
"The first breath of spring," she sid "Will is not extravagant, aunt. It is but seldom he indulges in a little baxury. But he said the fragrance of the flowers gladdened bim all day."
"Such rubbish!" cried Aunt Lucinda, sharply. "I never want fiowers b gladden me. I should be ashaned btalk such childish nonsense."

Bessie did notspeak Buthersilence, if her aunt had but known it, was preg. nant with meaning.
" But of course, it's no use my trying to talk to you," said Aunt L,uctnda, her visage assuming its most mournful expression. " You take no notice of what I say. I live here all alone, and nobody cares what becomes of me.

Bessie was still silent, so Aunt Lucinda went on.
"Yes, it is an ungrateful world. Look how I sat up with you when yon had the fever, Bessie. And I nursed Kitty all through the measles, your mother being in bed herself at the time. But i suppose you find it convement to forget all these things."
"No, we don't." said Bessie, her cheels burning. "We have thanked you : gain and again, aunt."

She did not add, as she might have Lone, that a benefit repeatedly thrown in one's face becomes an intolerable burden. Aunt Lucinda never allowed her good deeds to be forgotten, and she had a complacent belief that they would ensure her a ready passport to a better world when the time came for ber to leave this.
"Your aunt Anna has never done anything for you," went on Aunt Lucinda, " and yet you all fock to her, while I can handly get a glimpse of you. I can't think why."
"Well, I will tell you." returned Bessie, in the tone of one now determined to speak at all hazards. "It is because Aunt Anma is the most unselfish woman in the world; because her heart will never grow old; because love is the mainspring of her every word and action."
Aunt Lucinda gasped, and stared at the speaker.

- You say Aunt Anva has never done anything for us," proceeded Bessie, warming to her theme "She has never given us money, because-dear sonl - she has never had any to give. Why good women like her often get bad husbands is to me one of the stand. ing mysteries of hife. But you know what Aunt Anna's husband was."
" Wretch! " ejacuiated Niss Lucinda, with a face of abhorrence.
"Wretch indeed!" repented Bessie, a shade of sadness stealing into iner tone. "But"-defiant again-"who has- ever heard Aunt Anna groan or complain about him? None of us can ever quite realize the misery of the life
she led with him, and "-her voice sink-ing.-" mother always believed that there hidd been times when Aunt Anma lacked even bread to eat. But she never told the world. Aunt Anna was-and isa heroine!"

Aunt lacinda cowered a little. She had otten been secretly ashamed of the sister who was so poor, but Bessic's words began to put things in a newhight.
"He died at last." went on Bessie, " and a blessed relief it mast have been to Aunt Anna. But I don't beheve she ever admitted the fact, even to herself. And now she only talks of the lover of her youth.
"Oh, she has done a great deal for us." said Bessie, after a few minutes' thoughtful pause. * When you nursed us, Aunt l.ucinda, she was watehing by the side of her own dying children. She had to give them np; but though flesh and blood faltered, her heart was true to its heavenly allegiance. And she lives in sure and certain hope of meeting them again."

Something moved at Aunt I.ucinda's heart-something that had lain dormant for years. She did not speal.
"She has taught us such lessons." said Bessie, half dreamily. "And all, mind you, by the force of her example. I never remember Aunt Anna preaching to us in our lives. And oh, Aunt Latcinda "-with a sudden clange of tone -" it is so good to go there. She is always so jolly."
"Jolly!" repeated Miss Lucinda, rather faintly.
"Yes; she laughs so much. you know," explained lessie, a smile illuminating her own face at the remmebrance. "And she is always so inter ested in everything we tell her."
"Did-er-did she like Kitty's hat? ${ }^{\prime}$ murmured Miss Lucinda.
"Oh, immensely, " replied Bessic. "Only she thought if the flowers were put rather more to the back-just a little you know-it would be an improvement. So Kitty tried it, and it really was."

Miss Lucinda felt mather at a loss. If her sister were really the good woman described-and Bessie's facts could not be denied-yet slee could not understand Aunt Anna's interest in millinery. Heroism and artificial flowers wereto her mind-altogether incongruous.
"She always cares," said Bessie, " no matter what it is. Whatever we want to tell her, Aunt Anna is always
anxious to hear. And she is such a darling to talk to! Somehow she always understands."

Bessic had softenel consider:by white she had been talking. But she suddenly remembered, and returned to the starting point. Her voice grew hard again.
" You wondered, $\Lambda$ unt Incinda, why we liked going to Aunt Anna's betler than coming here. And I said I would teil you. So I will, thongh I expect you'il never forgive me for $1 t$."
"Well :" sad Annt I.ucinda.
She tried to speak in her usual tonte. but she faltered a little, and Bessicnoting it -went on more gently:
"You always find fant with us, Aunt Lucinda. Try as we may, we can never please you. And so-some of us have got tired of trying."

Aunt Lucinda was silent But a sudden sense of loss swept ever her.
"You are mother's sister," said Bessie, " and we have tried hard to love bou for the sake of the time when you. she, and Aunt Anna were girls together. When mother died, she told us never to forget you, so we have done our best to bring a little brightness into your life. But you would not let us."

Dessie's voice was very sorrowful now, and Aunt Lucinda cowered dumbls in lier chair.
" We have wanted to come and telt you things as we teli Aunt Anna, but you never cared to hear. When Cousin Letty came to see you she was proud and glad because of her engagement. She wanted you to say, ' Heaven bless you, I,etty, and give you happiness." But you told her marriage was a mis take, that good husbands were scatce. and that any woman who ran the nsk was a fool. So little letty went home with a bleeding theart; she did not want to come to you again, Aunt Lucinda."

Miss Lucinda shivered. For years people had longed to tell her the truth, but had not dared. Bessic's present frankness might be a wholesome tonic, but it was very, very bitter.

I came to you in great trouble myself a little while ago," said Bessie. "I need not now enter into the question of what it was about. Perhaps you re member, or perhaps the thing made so little impression on your mind that you have forgotten all about it Avs way my heart was terribly sore, bry you could not give me any attention

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THE TIP, sible to pu midille por rhale the b. the flavours Nbstances.

Mary had dusted the sitting-toom badly that morning, so you could only think and speak of her delinquencies. I had to go away agan. I went to Ambt Ama."
"And what did she do? " asked Miss I.tcindn, in a stifled voice.
"She cried with me,"replied Bessie, simply "Just at first, you know. Then she kissed nee, and bade me be of groxl coumge, for better times were sure to cone; and she made me realize that I wasn't just a plaything in the hands of a blind fate."
" Dessie." cried Aunt Incinda, the tears raming down her face, "I've
been a selfish woman, but I never knew it 1 want to be different. Oh, do help me!"

When-some two years later-Bessic's sweetheart was introduced to Aunt rncincia, he quite fell in love with her
" You have got the most charming relations, Bessie," he said, as they walked home together in the gloaming. "I thought there could not possibiy be another woman as sweet and kind as your Aunt Anna, but Aunt Lucinda is nearly as good."
"Yes" assented Bessie, a happy thnll in her voice, "Aunt Lucinda is nearly as good."-Woman's life.

## Items of Interest.

Tife belds of Pekin, seven in number, weigh $120,000 \mathrm{lb}$.


Great Brifain has some $2,000,000$ domestic servants.
**

Ir is SAID that the population of the world increases to per cent. every ten years.

It is estrmaten that only one couple in is. 500 live to celebrate their diamond wedding.

The averagen sickness of human life is ten days in the year, or two years out of the life of an ordinary man.

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The mffermace between the tallest and shortest races in the work is 1 ft . $t^{\prime}, \mathrm{in}$., and the average height is 5 ft . $5 \% \mathrm{in}$.


The Norld's marths amount to 36 ,i92,000 every year, 100,800 every day. 4.300 every hour. 70 every minute, or one and a fraction cvery second.

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In Cunsa the coimage is pierced with asquare hole in the centre, and in place of a purse John Chinaman carries a prece of string on which the coins are slang.

The tip of the tongue is chielly sensble to pungent and acid tastes, the middle portion to sweets or bitters, rble the back is confined entircly to the flavours of roast meats and fatty sobstances.

There are nearly 2,000 stitches in a pair of hand-sewn boots.

## ***

Astronomers tela us that in our solar system there are at least 17,000 , oos comets of all sizes.

Conk is worked so easily in China that in Shan-si it sells at less than one shilling per ton at the mines.

THE NuMber of playing cards used in the world is something wonderfut. Germany alone possesses thirty-four playing-card factorics, which last year produced $5,260,000$ packs.

Tie lord Mayor is the only person, besides the Queen and the chief constable, who knows the password to the Tower of Londou. The password is sent to the Mansion House quarterly, signed by Her Majesty.
${ }^{*}{ }^{*}$ *
Debtors in Sian, when three months in arrears, can be seized by the creditors and compelled to work out their indebtedness. Should a debtor rum away, his father, his wife, or his chíldren may be held in slavery until the debt is cancelled.

A strange clock was made during the last century for a French nobleman. The dial was horizontal, and the figures, being hollow, were filled with different sweets or spices. Thus, running his finger along the hand, by tasting the owner could tell the. hour without a light.

Therif are on an average eight pow. crful muscles in a lion's tail.

Alummicy cormins, costing from $\$ 750$ to $\$ 1,00$, are now in great demand in the United States.

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Tuere ares two blind beggars in New York who have stood at ther respective comers in Fifth Avemue every day for twenty-five years.


The cumbrien of the blackest African are born white, in a year they become brown, and their skin gradually blackens until the age of thirty when it is ebony-colored.
**
Ressin has fewer newspapers (only about goo) in proportion to its inhabitants than any other European country. Germany has seven times, France five times, and England four times as many.

It is fismimated that from thirty to forty million pounds' worth of property is every year destroyed by fire all over the world, though not one-fifth of this damage is done by what may be called great fires-fires involving a loss of fifty thousand pounds or upwards.

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The American papers tell of a good minister's wife who was thrice married, to a Mr. Robin, a Mr. Sparrow and a Mr. Quayle, with children or step-children by each marriage, so that in the home-nest of her third estate there dwell together little Robins and Sparrows and Quayles.

A process has been discovered by which sails of vessels of all kinds can be made out of paper pulp, and it is claimed that they se:ve quite as well as canvas and are very much cheaper. They swell and flap in the wind like the genuine old-fashioned article, and are supposed to be untearable.

Father bartoli, who has laboured for many years as a missionary in India, speaking in Rome the other day, said one of his fellow missionaries gave some boxes of matches to the people of a village who had for generations obtained fire by rubbing two flints together. A few months later he found that the people were worshipping these boxes of matches as deities.

In ISON Titine were 200 horses in Australia; in 1900 there are $2,00,000$.

ONE Authority on botany estimates that over 50,000 species of plants are now known and classified.

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Evfry nov in Gennany, from the Crown Prince to the meanest subject, is obliged to learn some useful trade.

Tife satives of Persia have an odd way of testing a carpet to see if it is a true Persian product. A piece of redhot charcoal is dropped upon it, whach leaves a round singed spot. If the carpet is of the first quality the singed wool can be brushed off with the hand. without leaving a trace of the burn discernible.

The English language-according to a German statistician who has made a study of the comparative wealth of languages-heads the list with the enormous vocabulary of 260,000 words. Germany comes next, with 80,000 words, then Italian, with 75,000; French, with 30,000 , Turkish, with 22,500, and Spanish, with 20,000.

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Last year Iondon cost just under $\$ 6,000,000$ a month to pay for its policing, its fircmen, street cleansing, and the like. But this sum, big as it is, is put in the shade by the yearly outgoings of New York. For 1900 New York's budget is $\$ 92,00,000$, a fair sum, considering that its population is but 3.438 .899, compared with London's $4,504,766$. Paris, too, costs a little more than Iondon, 597,000,000 a year, whist economcal Berlin manages on an meome of $\$ 24,000,000$ only.

Chauncey M. Depew, president of 1.1e Transportation Club, composed of the leading railroad men in America, was down for a speech at the annual banquet of the organization in the Manhattan Hotel, New York. Being unable to leave Washington, Senator Depew delivered his address through a telephone. Each of the 150 guests held a receiver to his ear and heard the speech as well as though it were being delivered in the room. Senator Depew declared that while he had been accused of de livering long speeches this was the first one of over 200 miles in length.

An Epitome of Expert Opinion and Interesting Facts Gathered from Authoritative Sources,

## General Notes.

Second Cut Clover is the best hay for young calves and lambs.

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Killing Quack Grasa.-lif it is pastured close for three or four years there will be no further trouble.

Earley is frequently used for horse feed, especially in the newer sections of the country. It should usually be ground or at any mate, crushed. If it is fed whoie, a large amount of the feed is wasted, unless the horse's teeth are exceptionally good.

Dogs are an Abomination around sheep, and have driven many out of keeping sheep. A rifle ball placel just back of the shoulder will cure any sheep-killing dog of this habit. Pieces of fresh meat loaded with strychnine and scattered around and near the sheep pastures is the safest remedy to use.

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Corn and Oats for Work Horses.One of the Paris omuibus companies which uses a large number of horses, concludes that a grain ration consisting of 6.6 lbs cotn and 12 lbs of oats will prove more satisfactory than any other. Another ration, fed by the same company, of II lbs. of oats with 6.6 lbs . of com, and all the hay and straw the animals will eat, was equaliy satisfactoty.


Bringletg $U_{p}$ a Poor Farm.-Cowpeas will bring up the fertility of a light sonl better than anything else with the exeeption of a heavy application of manure or fertilizer. Nlow and plant them in early Juse and let them die down in the fall and plant again next year, if you can give up the land for two years. This will be better than to plow in the fall, lime lightly dunng the winter and sow to clover the next spring.

For Red Splders that infest your pinks or other plants, fush the foliage with soap suds. Dry atmosphere encourages them.

Wooden Butter Packages and parchment paper must be thoroughly soaked before packing butter in them, else there will be lots of trouble with the butter. Steam or scaid the packages and then soak in cokd brine over night. The paper ueerts several hours' soaking also.

Cure for Hoof and Mauth Disease.An extremely simple way for preventing the spread of the hoof and mouth disease which is unusually prevalent in Germany, and which seems inpossible to stamp out, has been discovered by Dr. Winkler, and is thus described by Consul Schuman of Mayence: "The milk of cattle afficted with the disease is well boiled, and from four to six quarts is fed to each anmal for a period of eight days." Prof. Winkler claims that it will give immunity to the discase.

French Market Gardening. - In the vicinity of paris, a million acres are devoted to market gardening. In that locality artificial farming has reached such a pitch that a large part of the soil is made to order, and by the terms of the lease the tenant sometimes carries the soil away with him, just as he does his hotbed frames; water pipes and machinery. Thesuburban farmer usually begins with old forcing beds as a basis for his soil, but may make the foundation of sawdust and shavings, or any material that will furnish vegetable mold, adding fertilizing material with great liberality On this combination he grows vegetables in the open air to the value of $\$ 1,000$ per acre and pays intuense rents, sometimes is high as $\$ 160$ per acre At Cherbourg, much of the land has been reclaimed from the sea, and on this land 15,000 tons of vegetables are produced and sent to the British markets.

## Grain for Cows on Pasture.

## W. J. KENNEDY, UNIVERSITY OF ILLINOIS, U.S.

$\mathbb{T}^{1}$HI: majority of dairymen do not believe-in feeding grain to their cows white on pasture, as they claim it does not pay. On the home faril we have fed grain to our cows the year round for several years, and a number of our most progressive neighbors have done likewise. Many people doubted the wisdom of such practice at first, but some of them are now following our example. A year ago I nict one of our most successful dairymen on his way home from the station with a large load of corn meal and bran for his cows. I asked him if he was satisfied that it paid him to feed so much grain during the summer months. He said, "I do not think that I could afford to stop feeding grain to my cows while they are on pasture." I might say that this man has not only bought and pard for bran and corn meal for his cows, but with the net returns from his cows he has purchased and pad for three fine farms for his sons. His views coincide
with mine exactly, for I feel that my father has made money by feeding grain to the cows while on pasture.

It is true, perhaps, that for a month or so, while the grass is plentiful and succulent, the cows will give as large recturns without grain feed as with it, but during times of drouth and the fly season, grain-fed cows will always hold their own much better than those not so fed. They also milk much better durmg the last few months of the lactation period. The quantity of grain to be used will depend to some extent on the condition of the pastures and the size of the cows, It is not generally advisable to feed more than from four to eight lbs. per cow per day. The University dairy cows are fed daily from three to five lbs. each of a mixture of equal parts of corn meal and gluten feed, depending on the size of the cow and the length of time she has been milking. Our large cows get more than the small ones, and we also feed our fresl cows heavier than those that have been milking several months.

## Feeding Horses for Market.

$\mathbb{T}$HERE is a great deal more moncy made in feeding horses for market, if a man understards the business, than there is in feeding cattle, in fact, a well-selected and well-bought lot of horses will make $\$ 3$ per head where cattle will make $\$ \mathrm{~s}$. A man to select horses to buy and feed must be a horseman; he should uaderstand the requirements of the market, and what constitutes a market horse. He wants a blocky-made, well-shaped horse of good bone and quality, weighing from 1,200 to 1,600 pounds, four to seven years old. It should be of one of the threc following classes: A "chunk," with shape and quality, weighing from 1,250 to 1,350 pounds; express horse, 1,300 to 1,500 , or a draft horse, weigh ing from 1,500 to 1.800 pounds when ready for market. They should be fed well from thirty to ninety days. Of course, a horse that is in good condition when bought might shape up in thirty days, but from thirty to nincty days gets most any horse in good shape. The next class most profitable to feed, and more profitable than the above-
named classes, if selected and bought by a competent judge, is a coach or carriage horse, or a road horse from 15.3 to $16 \frac{1}{2}$ hands, weighing from 1,100 to 1,300 pounds, when fed and handled so as to be well broken and handy, and fit for immediate use on the road in a spider, or stanlope, or carriage. This class zust be sound, possess all the shape and quality required, and is very saleable.

In feeding horses, the best methods should be adopted to obtain the largest grain for the same amount of feed. I have always found it most profitable when I could keep horses in box stalls or large pens on the ground. Horses will not do as well to stand on a piank floor or in common stalls, as their feet dry up and get in bad condition; they must have sufficient moisture to keep them healthy and growing. They should be kept warm, and still have plenty of air. They should be fed all the grain and water they want three times a day, with good hay that is not musty, but cut when green and well cured, or corn fodder is good, if cut up when green,-F. J. Berry.

## LABOR WELL SPENT.

## Cheap Lawn Roller.

GET an old qo quart milk can and fit of a latn mower as shown in the illus. acircularboard 1 yinches thick and $12 / 2 / 2$ inches in diameterineach end. Through the centre of the ends pass a halfinch gas pipe, $16 \frac{1}{2}$ inches long. Through this gas-pipe pass a bolt $17 \%$ inches long Fill the can with stnall stones
 tration to the roller and it is ready for work. The sand, if properly put in, witl settle through the stone and fill up every available crevice. The wooden heads should be nailed in securely. Ths answers uicely for small and sand to make it heavy. Cut the lawns and is comparatively inexpensive handles of the can. Attach the handle to make.

## High Feeding for Plants.

INTERESTING experiments have The illustration shows a small apparbeen carried on in plant feeding by Mr. G. M. Sherman of Hampden Co., Massachusetts. His plan in bnef is to supply liqurd fertilizers by means of a porous jar buried a foot or more beneath the surface and filled from time to time through a tube projecting above the ground.

The roots of the plant or tree collect around
 atus in operation. The experiments have been mostly confined to rose bushes, which in many cases appear to have madeerormousgrowh, shoots extending several inches per day in some cases. The inventor expects the principle to prove of great value in the cultivation of all kinds of fruit and shrubs and will have the theory thoroughty the porous jar and absorb the fertilizers. tested at the State Experiment Station.

Guarding Agalnest Sun Scald.

YOUNG tiees need protection against the severe heat of the sun, also protection against the whipping porrer of the wind. Setstakes east and west of the newlyset fruit tree and run a cord from one to the other, winding the cord about the tree as it passes. Tie a piece of burlap on the south side of the tree as shown and the tree will be protected from whipping by wind and from the sun. A piece of leather or old rubber hose should be

put around the tree and the cord tied around this to prevent cutting in the bark and injuring or killing the tree. This method will be found very effective in preventing sun scald.

It cannot be too strongly impressed upou farmers and all who have any interest in horticulture that by guarding one's trees against the different visitations, erroneously supposed to be unavoidable. a very material increase is made in the year's profits.

## Good Henhouse Door.

T'II1: doors that lead from each pen out "slacked away." If it is desired to into the yards shoukd be made so as to open with a cord from the front of the pen, or from the alley-way. $A$ door that rises and falls in a groove is constantly sticking, but one made like that shown in the two cuts, Figs. I and 2. given here, will never fail to shat when the cord is
 lock cach door, a bolt like that shown will slip down into place when the door goes to, and the cord is loosed. Then to open the door, the cord first pulls the bolt out and then raises the door. The cuts are taken from the inside of the house. The cost is slight, but the advantages are many.

## Propping up Young Fruit Trees.

MATURE trees can have over-burdened 1 imbs propped up by stakes frombeneath, since such limbs sway bat littie in the wind. With young trees the whole top sways, and props are soon displaced and fall. Put a long pole up beside the trunk and support all heavilyloaded limbs by cords from

from all sides, and need not be imbedded in the ground nor tied to the tree trunk.

It has been demonstrated once again that the revemse from a fruit crop is an uncertain quantity even up to within a few hours of the intended picking owing to the possibility of wind storms; and the wise farmer is he who takes its top. The pole will be anchored no other chances than nature imposes.

## Fruit Ladders of Various Kinda.

S. GEORGIA.

MANX scrious accidents occur each year in the picking of apples, cherries and similar fruits, by the ladder turning or tipping over sufficiently for the pieker to loose his balance and fall. Neatly all of these accidents could be avoided by the use of a ladder with a broad base, with the ends widely separated when resting upon the ground, which will in a measure prevent sudden tipping.

All ladders should te made light and strong, and, for ordinary trees, a ladder eighteen ft long should enable one to reach the fruit conveniently For convenisn e, however, and to save heavy
lifing, one ten or twelve ft . loug should be at hand for gathering the fruit from the lower limbs.

All the plans shown in the iltustration are for ladders over fourteen feet long. Fig. $t$ shows a ladder $3 / 1 / 2$ f wide at the bottom and tapering to a point at the top; this will prove convenient, as the top can be readily pushed in among the branches and, good bearing secured. It is safe and durable, the only objection being the approach of the sides as one goes upward, which gives but little roorn for the fect. Fig. 2 is a common ladder quickly provided with expanded base
supports 'sy firmly mailing to the under side two strips, 6 ft . long, in the manner shown. By using four bolts of suitable iength, this extension is readity applicd, or removed as desised, and

nROAD BOTTOMS FOR LADDERS.
will be found safer than nails. In Fig. 3 a common ladder is fitted with two kinds of extension side pieces. The two lower rounds of the ladder, as shown on the right-hand side, extend to these pieces, the upper ends being bevelled and nailed or boited to sides
of ladder as indicated. The arrangement on the left-hand side is simply a modification of the other. The sides of the ladder are not marred or weakened by the use of naits or bolts.


STEP I,ADDER.
In the good, home-made step ladder shown, the side pieces are $51 / 2 \mathrm{ft}$. long. The steps are $21 / 6 \mathrm{ft}$. long. A cleat should be mailed to the side for supporting each end of the steps, and the steps are also nailed to the sides. The top is I ft. wide and projects over one end about 14 in . to hold a basket or pail when harvesting the fruit. The supports are attached to side pieces by common strap hinges. If onte has no chains, use No. 9 wire and make chains with links 5 or 6 in . long. It is advis. able to use only well seasoned light timber.

## The Uncapping Fork.

THE uncapping fork is used very well on tender and uneven combs, and largely in Europe, but we do not know that it has been tried on this
 as we firmly believe the Canadian farmer should be up-to-date, we respectfully make side. It is said to work more easily and rapidly than the knife, and works


WIIL, E diplomacy may require the utmost caution in every step taken by the allied powers in regard to China's future, humanity demands that punishment swift and sure be meted out to those responsible, in however remote a degree, for the barbarities inflicted upon missionaries and their wives and children in different parts of the " Celestial " kingdom. We can make allowance for the fanatical fury of a mob soaked in the superstition of centuries, even when it finds vent in the shedding of innocent blood. Wrought to a veritable pitch of frenzy by stories of witcheraft practised against them and their children by the "foreign devils, " it is not remarkable that, given the opportunity, the Chinese hordes should fall upon those against whom they were incensed and put them to death. But the method of it! The stripping and outraging of women and young girls, and then dragging their bruised and naked, but living, bodies, by rop 1 to the place of execution, where death was administered by the slowest and most torturous means the mind of devil could conceive! What place in the argument of diplomacy has the fate of the fiends who perpetrated. or lent countenance to such hellish work? Punishment by death by the most terrible and terror-inspiring method that Christian sentiment will sanction should be the immediate portion of all implicated, whether of high or low degree.

Unfortunately, envy; hatred and malice phay too conspicuous a part in the deliberations of European powers to allow even a question so purely one of justice and ethies as this to be settled without a weighing of every ounce of material advantage that will accrue to a rival power. It is safe to indulge in prophecy to the extent of saying that the part taken by the palace authorities will be condoned-for political reasons -and that they will give evidence of their repentance by extraordinary activity in bringing to execution scores of ignorant peasants who did the bloody work at the bidding of these same high. placed thugs.
CCIENCE the handmaiden of agriculture," is a favorite maxim with us, as our readers are aware, and we have never seen a more striking demonstration of its soundness than that afforded by the experiments conducted by a French astronomer, Mons. Camille Flammarion, on the effect of colored light on the growth of plants. M. Flammarion erected four small greenhouses exactly simitar in their structural conditions and in their respective positions to the sun, so that there was absolute equality in temperature and intensity of light. The only difference was in the glazing, which was red, blue, grien and white respectively.

Seedlings of the mimosa, a sensitive plant, all of the same age and stage of development, were placed in the different greenhouses and allowed to grow for three months, at the end of which time "the plants in.the ordinary conservatory had grown in a normal manner, and had attained a height of nearly
four inches. Those in the blue glasshouse had not made the slightest innprovertent ; they were precisely as they had been planted three tuonths before; in fact, they cant best be described as plants in a trance. They were alive, seemingly quite healthy, but absolutely undeveloped: as they had been planted so they remained. In the green glasshouse the plants had shown a large amount of energy, and had pushed up to a height nearly as great again as that attained by those in the ordinary conservatory. There was no doubt that the atmosphere of bicen had stimulated their growth upward, though, on the other hand, they wete not so well developed or so bushy as the other. But it was in the red glass house that the most striking results were apparent. In this the seedlings had simply leapt into stature; they were four times as tall as their contemporaries of normal growth, and they were actually more than fifteen times the size of the little plants which had slept in the blue light. Moreover, they alone of all the seedlings had flowered."
The narrator of these interesting experiments, a well-known writer on kindred topics, in Pearsons, of London, lingland, says that other plants were subjected to the test with the same remarkable results. His conclusions that "radioculture" is a factor in the future of horticulture and agriculture will find aceeptance by many, and we hope that the chiefs of the Department of Agriculture will give the matter their early attention, and by a serics of experiments at the Agricultural College demonstrate to what extent the discoverics of M. Flammarion can be of practical value
to that numerous class of farmers who include market gardening in their operations. The writer already referred to says: "As far as real practical use is concerned, it is early yet to predict, but it certainly seents as though red glass houses might with great advantage become part of the stock-in-trade of the florist and market gardener as an additional and most usefin adjunct to his present forcing arrangements. Such a semarkable stimulant to plant life as red light proves to be cannot be overlooked long."

COMING events cast their shadows ahead, and while the average M.P. is a pretty substantial shadow, the fact that in all parts of the country fe is evincing a strong desire to meet his constituents in public assembly indicates that a general election is not far off.
We are not in politics. Of course, we know there is a difference of opinion on many questions between Sir Wilfrid and Sir Charles, and we will leave thos: gentlemen and their respective followers to fight their own battles, which they are well able to do.

There are one or two questions, however, which have no party significance ; questions which both sides would be willing to aid in bringing to a successful issuc if they can only be persuaded the people consider them important. Foremost among these, having regard to the comfort and well-being of the farmer and his family, and the necessity of staying the process of depopularising life on the fam, we place the establishment of a rural postal delivery. We
have dealt with this subject more than once in these columns during the last taree years, and have in other parts of the If,restsati:d published statistical and illustrated articles demonstrating the success which has attended the movement in the United States. In fact, we were ahead of any of the Toronto or other city dailies in our adiocacy of a rural postal delivery in Canada. During the last twelve months the question has been the subjeet of favorable comment by the Toronto Globe and Toronto II'orld, and doubtless by many other far-secing journals in different parts of the country. We mention these two Toronto dailies, however, because they are representatives of both political parties, and their agreement on the desirability of testing the scheme is an indication that there is good groueds for our contention, that if the question is only brought clearly before each candidate for parliament before the next election, rumal postal delivery is certain of a trial, at least, no matter which party is returned to power.

But it rests with the farmers to bring the necessity of the innovation home to every member, or would-be menber, of Pariament.

Unfortunataly, questions of the greatest importance, which do not come within the eategory of party issues, are side tracked or, at least, lost sight of, by party journals just before an election. All their energies are required, apparently, for those questions - many of them oflittle real importance-on which the political parties have taken sides. The farmers, therefore, must depend upon theirown personal efforts to make
their respective eandidates understand that a rural postal delivery is an essen. tial to the successful development of agricultural Canada. Deputations of farmers of both or all political creeds should be organized in every constituericy, and an interview secured with cach candidate, before whom should be placed a statement of facts and figures showing how the project has suceeded in the United States, and that the conditions are, at least, as favomble for success in Canada. This data we will publish in our next issue in a manner that will render it easy of compreinension, and we hope the future will prove we have not striven in vain to assist in bringing about one of the greatest boons that ean be bestowed upon the agricultural community.

IT goes against the grain to liken any old man to a rodent, and when the individual so compared has filled a fairly large space in the world's eye as a figure in a commanding position, the reluctance is intensified; and yet, of a truth it would be hard to find a more apt illustration of the foree of the old tag that rats desert a sinking ship, than is furnished by the undignified scuttle of Paul Kruger out of the Transvanl, the onty primary faule of whose peogic was their unswerving belicf in, and loyalty to, their President, who, in their hour of greatest trial, skedaddles with all the gold he can lay his hands on.
Ol such is the patriotism of the Pious Paul, who, playing on the credulity of his burghers, unged upon them with scriptural exhortation an unrighteous war, which could have but one resultthe loss of the country they loved well and the filling of burgher homes with bereavenent and desolation ard the dotting of the veldt with the graves of nocr and Briton, whose lives had paid the forfeit of an eld man's bigotry and
ignorance. Mad Kruger stayed until the end, no matter how bitter, taking his chances, with the rest, of the worst capture or capitulation could entail, he might have gone down in history as the misguided patriarch who sought to impose medieval despotism on white men at the close of the twentieth cen-tnry-and lost his seeptre and his country therebs, but who proved with all his fauts to be a fearless patriot. As it is, he stands as the personification of selfishness, ready to make endless sacrifice of the blood and treasure of his countrymen but careful to ensure his own safety and material well-being.

That the cunsing old genticman has played unconsciously into England's hands cannot be doubted. Had be continued in person on the seene and eventually suffered capture, the disposal of him would have been an cmbarrassing task for Britain, as a halo of martyrdom would have encireled the venemble prisoner ending his days in captivity, or, at least, in ceile, which would have tended to keep alive the antipatlyy of the Boers against British rule and blind them to the fatal errors of ther former President. As it is, the picture of Paul Kruger with his bags of gold hastening to a place of salcty, changes respect and pity into soncthing remarkably akin to contempt and disgust. The awakening of the duped bocrs, though long delayed, will be complete, and will inevitably make for the spexdy assimitation of British ideas and the acoeptance in spirit as well as in form of British rulc, which they will quickiy find means the rule of themscives and their fellow subjects For the benefit of all. Meantime the duty of seeing that the ex-president docs not hatch any conspiracy against Mritish power in South Alrien or elsewhere devolves upon the power or powers within whose borders be fints :m ssylum.

Thus has Mr Kruger provided in the safest way possible for his own future good behaviour without entailing upon Ingland the necessity of guarding one more prisoner of state.
**

I$T$ is the custom to accord our climate a place in the category of Canada's natural attmetions. Well, it may be. But the hurricave that tore through the country a few hours ago has blown away a good portion of such enthusiasm as was left in us, unfrozen, at the end of last winter. We are not, however, blind to the blessings that are ours in that we are not as other men are, climatically; and verily the loss of a million dollars and more to the country in damaged fruit crops and property ${ }^{\text {. }}$ destroyed by the storn and by fires witich it fanned, pales into insignificance compared with the fearful visitation which transformed the prosperous city of Galveston, Texás, into a mass of ruins, where each pile of debris was a hecatomb. War with all its horrors cannot produce a scenc so tearfal to contemplateas that which was described to the world a fer days ago, and which told of death and desolation unparalleled; ten thousand human beings, who at one hour were peacefully pursuing their regular routine of home or business life without any thought of danger, were, in the next, bying erushed and mangled and cold in death-their sepulelire the roms of the haunts of their lifetime.

While we of the northern intitudes have our own climatic grievances, we can well afford to rest content when we see in the wake of the alluring climate of the South such death-dealing batties of the clements.


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## PERSONAL PARAGRAPHS PERTAINING TO PROMINENT PEOPLE.

Marshal yamagata, the Prime Minister of Japan, upon whose diplomacy so much depends during the present crisis in China, was Commander of the Japauese armies in the reeent war between Japan and China. He first. canse into prominence as a revolutionary, when, as a young man, he joinced the revolution which substituted for the autocracy of the Tycoons the supreme rute of the Mikado In t86g the Mikado sent hum to study the mulitary organication of France and Imgland, and he was in France during the great struggle of IS 7 o . On his return to Japan in iS7r. he was made Minister for War, and it is clear enough that the great advance made by Japan in military science has been due almost entirely to Marshal Yamagata. He is descended from a long line of nobles, and his father was a poet of some cminence.

Prince nilwari) of York and his have battles royal occasionally in their nursery over their toys. One day the Duchess of York was going to have them punishet, when the Duke interposed "Oh, let them fight 't out," he said; "they will make the better men for it."

A STORY illustrating the simple bonhomic of the King of Sweden and Norway, is told by M. Gaston Bonnier, the botanist. M. Bonnier was botamzing near Stockholm, when he met a stranger similariy oceupied. The two botanists fratermized, and M. Bonnier suggested that they should lunch together at an inn.
"No, come home and lunch with me instead," said the stranget, and led the way to the palace ame opened the gate.
M. Bonnier war naturally astonished. but his new acquantance was most apologetic.
"I'm sorry," he said : "but I happen to be the King of this country, and this is the only place I 've got to entertain anybody in " So they went in and lunched, and talked botany together all the afternoon.

$\mathrm{D}^{n}$R. FRANCIS EDWARD CLARK, the founder of the Christian l : ${ }^{2}$. deavor Society, is a Camadian, he hitwing first seen the light of day at Ay lmer, Quebec Province, on September 12th, 1851. His real name is Symmes, but he, early in life, became an orphan, and was alopted by his uncle, whose name he assumed He took up the study of theology, and obtained his D.D degree in 1873 . In February, 188i, he founded the C.E.S., but it was not until $1 \$ 89$ that the movement caught on in Englaut. In 1890 there were cighty-nine socicties. to-day there are 6,3 or branches in thas comatry, while in the wide world there are over 54,000 branches and $3,000,000$ members.

That superb pianist, Ignace Jan Paderewski, who has had the honor of playing before the Queen, owns one of the most beautiful homes in the word at Riond Bosson, on the borders of the Irake of Geneva. As he says, it is too beautiful for work, but, none the less. it was here he composed and orches trated the greater portion of his opera which is to be produced at Dresden By birth he is a Russian-Pole, having first seen the light of day at Podolia on 6th November, 1860. After studying at Warsaw and Berlin he became a music-teacher, and in 188 the decided on his life career as a virtuoso. Ife first went to England in May, 1890 .
 paper is responsible. Many years ago the President bought from an old half bred woman pediar a meerschaum pipc. to which she ascribed the power of foretelling the future. The old woman predicted that three important changes in his life would be foretold by accedents befalung the prpe. Early in the year 188t, before the independence of the Trnnsvaal was modified, the stem came to pieces, a hittle before the Jameson kaid he clupped a prece off the bowl, and just before has departure iur the Blominfontein Conference last seur the pipe fell to the ground and wis smashed to fragments.

## Prince <br> is a

 and very it other day the tmin, $p$ and drove : Munich. I the unforta: his mind g this way on mate drivers tip at the er:$\underset{\text { Dr }}{\substack{\text { Ge } \\ \text { The }}}$ gone througl He led the s dation into: only twenty: in his side, t extracted till complete his tramped 2,00 Australia, ar stilor in a $Q t$ ing steamer.

$S^{11}$IR ARTHUR SULLIVAN, the famous composer, was a boy at school in the days of the Crimean War. One day his master, Mr. Helmore, came moto the school-room and said, "Put away your books, boys. 1 am going to gue you the best lesson in English history you have ever had." He then sat down, took the Fïmes out of his pocket and read Dr. W. M. Russell's graphic acconnt of the Battle of the Alma. Durmg the reading, says Sullivan, the tears rolled down the cheeks of master and koys at the narratuve of British heroism and daring.

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TIIE yearly expenses of the Sultan have been estimated at no less a sum that six millions sterling. Of this a million and a half alone is spent on the clothing of the women, and $\$ 400,000$ on the Sultan's own wardrobe. Nearly mother million and a half is swallowed up by presents, a million goes for pocket mones, and still another million for the table. It seems incredible that so much muncy can possibly be spent in a year by one man, but when it is remembered that some 1,500 people hive within the palace walls, live luxuriously and dress expensively at the cost of the Civil List, it appears a little more comprehensible.

PRINCE FERDINAND of Bulgaria is a clever mechanical engineer, and very interested in machinery. The other day he left his compartment in the tmin, put on a workman's blouse, and drove an engine from Salzburg to Munich. It will be remenbered that the unfortunate King of Bavaria, before his mind gave way, often travelled in this way on the engines, and the legitimate drivers always received a princely tip at the end of the journey

THE Times correspondent at Pekin, Dr George Emest Mornson, has gone through many perilous adventures. He led the Melboume Exploring Expedation into New Guinea when he was only twenty-one. lie received a spear in his side, the head of which was not extmeted till he went to Exhnburgh to complete his medical training. He trampel 2,000 willes from end to end of Austmia, and served as a common sailor in a Queensland Kanaka-recruiting steamer.

THE Prince of Wales is exceedingly fond of a button-hole flower, It cannot be said that he has any particular favorite; but, especially during the summer months, half-a-dozen buttonholes of various flowers are placed on his table every morning, and from these he takes his choice.

## **

PRESIDENT Kruger is much averse to gambling-in some forms at all events. One day a lady called on him for a church bazaar subscription. He turned to her in his abrupt way and denounced bazaars as swindles.
"A bazaar and rafting," said he, "are nothing else than gambling."
The lady, accustomed to his ways, nevertheless pleaded hard. At last he handed her a domation, "on condition that my name does not appear in the swindle."
$D^{\text {R. GAUL, }}$ the $\stackrel{\text { *** }}{\text { Bishop }}$ of Mashonaland, who was with Colonel Plumer's force, and only narrowly avoided capture by the Boers when they seazed the ambulance which he was in charge of, is well known to many South Africans He has lived in the Orange Free State and at the diamond fields for twenty-five years. He was vicar of Blocmiontein from 1875 to 1880 , and of Kimberley from 1884 to 1895 . His episcopal head-quarters are now at Fort Salisbury, in Mashonaland.

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*_{*}^{*}
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LORD CURZON, the Viceroy of India, is causing considerable consternation in official circles by his unconventionality and disregard of precedent and red-tape methods. He has discarded much of the pomp and ceremony with which his predecessors had invested themselves, and spends much of his time wande.ing incognto through the native quarters, familiarizing himself with the life and needs of the mulhons he governs He penetrates into the worst plague districts, with cheering words for the dying and care for the living He is unlike his predecessor. Yord Elgin, in thus mising freely with all classes, whom he channs by his kindness and courtesy, and the only men who look askance at the vigorous young Viceroy are the old-fashioned officials, with whose dilatory methods he shows little sympathy.


## CHITMCHAT.

A WOMAN TALKS TO WOMEN-A MOTHER SPEAKS TO MOTHERS.


$A^{T}$$T$ the recent convention of the Kentucky Federation of Woman's Clubs, a prominent speaker assetted that the golden age of civalization would not arise until men, women and children were better fed "If the hundreds of thousands of intelligent club women." she concluded, " would this year study scientific cooking as well as cival service reform, they wond materially forward good government "

While ignorance of domestic economy may not be one of the seven deadly sins, light is yet thrown on its ramifications by the study of crimanology. Scientusts affinm that crme is a disease. and that if the convicts of to day had been better nourshed, many of them would have become worthy citizens.

More maschief in the form of disease, impaired vigor and shortened life comes to civiliged man from erroneous eating.
affirms Sir Ilenry Thompson, "than from the habitual use of alcoholic drank Indeed, many men have recour, to th stimulants merely to bridge over the time between insufficient meals."

Specialists in insanity says that its various formis almost always begin wh the inability of the victim to digest food.

If the mistress or daughter of the house believed that she might save father, husband or brother from crame, drunkenness or msanity, would she begrudge study given to the chemistrs and the proper preparation of fool ?

A young woman invited to act as bridesmad last winter insisted on guing to a distant city for a month preceling the wedding. Pressed for the reason, she admitted that while visiting certan frends her complexion invariably cleared. Her mother, startled at the impatation upon her own housekeqnag.
gave the matter serious consideration. A change in her table resulted in marked improvement in the health and beauty of her children.

A recent comic paper illustrates a young housekeeper orderng five pounds of sugar, and offering, in case it were not too heavy, to carry it herself.
"I will make it as light for you as possible!" said the obliging grocer.

Happily the day of such gibes is passing. Women's clubs everywhere, as at the Kentucky Federation, are endorsing scientific priuciples in housekeeping, and women are more and more realizing that in no inconsiderable degree happiness, as well as health and ability, hangs upon digestion.
"Willie, my boy, what name shall we give to baby? "said Mrs. Archer to her first-born, a quick-witted boy in his fifth year.

After a moment's reflection, Willie laid his hand on the infant's head, and said: "Oh! I know, call him Archie bald!"

T$T$ is not the most enviable fate in the world for a woman to be born to wear a crown; but if one had to choose among such positions, one would surely elect to step into the shoes of the young Queen of Holland rather than into the more stately position of the Empress of Russia. A correspondent of the Watchman says of the Russian Empress that the beanty of her face is so overshadowed by an expression of patient, pathetic melancholy, that she arouses sympathy and curiosity in all who see her.

Russian empresses have little enough to inspire content, and this pale, pretty woman, with the sad eyes and mouth, endures daily such trials of playsical and moral strength as few Canadian women would consent to undergo.

Her husband is kind and affectionate, but he cannot relieve her from the severe and even cruel Russian court ctiquette. Again and again she has fatited at the receptions, balls and revews, through which, in spite of illness, she is obliged to stand.

Notwithstanding her beauty and her virtues, the Empress is not loved by the Russian people, nor consulted and confided in by her husband, p.s was her
mother-in-law, the Dowager Empress. She has neither the robust physique nor the ambitious character of the elever Dowarer, and court intrigues, squabbles and etiquette distress and fatigue her. The only true comfort she finds in her dreary splendor is the personal service and attention she is allowed to lavish on her tiny girls. There the mother heart finds solace.

In sharp contrast with the fate of this sad-faced Empress of the largest domain in Eturope is the life of the young Queen of the clean, free little kingdom of Holland. She lives far more like a popular petted belle of society than like a sovereign. While the tsarina never sets her foot out of the doors of her palace without the heaviest guard, Queen Wilhelmina goes shopping, walkittg, skating and riding, wheneve: the whim seizes her, with a single attendant, and that one often only a favorite lady-in-waiting.

Mamma: "Rodney, dear, to-mtorrow is your birthday. What would you like best?"

Rodsey (after a bricf season of cogitation): "I think I'd like to see the school burnt down."

MANY people, even those accustomed to being out of doors all day, think it necessary when night comes to shut every window. This is a very crroneous idea. During the long hours of the night, when all doors are necessarily obitged to be shut, surely fresh air is needed through the window. Some people say that they sleep more soundly if the window is shut. There is no doubt that their sleep is heavier, but, at the same time, it is not so refreshing as if they slept in purer air. So much carbonic acid gas being evolved from the lungs acts like a narcotic in a close roon. We all know how sleepy and heavy we feel in a crowded church, theatre, or concert-room Some people would be afratd to make a change in the winter, but, as spring advances, the change may be made with impunity. Open the window at the top. Once the labit is acquired, it will certainly be continued. Accustomed to sleeping in a fresh room, one feels suffocated if the window is closed.

ATTFNTION is callel to those essentially feminine habits of putting pins in the mouth, or moistening a pencil with the lips.

A pin swallowed means only a surgical case, but the greater danger lies in the contagion that may be lurking in the pin itself. Under the head of the pin, or in the point of the pencil, all kinds of malignant genms may be located, which wall be transmitted by the mouth quicker than any other way. It hardly seems possible that any one needs to be cautioned against holding money between his lips, yet a person can searcely go any distance on a street car without noticing someone indulging in this dangerous and filthy habit
"Ans'r he got his mother's nose ${ }^{\text {P" }}$ said the nurse "Pretty ickle sing ${ }^{1 "}$ Pa bent down to admire
"Ain't he got his papa's whiskers" " sang out Tommy, the eldest boy

So he had-such a haudful ${ }^{1}$

ToO prejudiced cars a "lady shoeblack ' sounds ridiculous, and yet in New York the lady shoeblack has arrived. A girl there saw how uncomfortably difficult it was for a woman to get iser shoes cienned in a large city unless she were living at home. The ordinary method of enlisting the sen ices of the boy at the street corner was out of the question, and yet it either meant this or dirty shoes "Why not," she thought, "open a shoe-cleaning establishment? " The idea was a good one, and with commendable enterprise she set about realizing it. The result of her efforts is that already she has
several imitators. who preside over little sanctums wherein a woman may comfortably ensconce herself with all the latest magazines to hand while her boots undergo a vigorous polishing at the hands of a nimble attendant.


Motier: "Now, don't you ask me another question. Little boys should not be so inquisitive."

Son "What's mquistive' ***
$\mathrm{Y}^{\text {OU }} \mathrm{O}$ can distinguish the start garl hy her walk. A great mony women have a sloppy cartage, they let the it hups sag and break Have you newor seen a women who stands with one hip, higher than the other, as though one limb wore shorter than the other ? Sueh women walk like jonted dolls; hrst one hip goes up and then goes down -a regular see-saw movement of the body from the hips down. The sunat gerl always keeps her body in the centre, and the line from the forchead rums down as though it were a plumb-line. The upper part of her body goes first. never the lower. The abdomen is held in and the chest expanded.

It is a prevalent error to suppose that the constitutions of children are fortified by eatly exposure to cold, whence anses the inexpressibly absurd practice of bathing infants in cold water, even in midst of winter. The circulation of mfants is almost wholly cutaneous, and any severe impression of cold upon their highly sensitive and vascular skin destroys the natural distribution of the blood, producing bowel complants, inflammations, and convulsions, wheh, if they do not destroy life, at last weaken the constitution, and prepare it for the reception of uther diseases.

## A Woman's Treasures.

$\mathbb{A}$LITTLEE ing of gold-a battered shoeA faded. curling wisp of yeltow haitSome penculled pietures-playthings one or twoA corner and a chest to hold thera there.

Many a woman's fondest hoard is this, Among her dearest treasures none so dear, Though bearded lips are often hers to kiss That once made only prattle to her ea

The sturdy arm. the seasoned form, the brow That arches oner ejes of manly blue, sfean all joy to her living memory now, And yet-and yet-she bugs the other, too:

With that rare love, musterious and deep, Down in a mother's heart thro' all the gears, That placid age can never lull to steep And is not gnef, get oft brings foolish te, ars.

She often goes those hoarded things to view Aud finger the wee treasures hadden theriTo touch the tittle nang and battered shoe. And kiss the curling wis pof yellow hair!

## FANCY EMBROIDERY FOR CLEVER FJNGERS.

How the New Drawn Work is Made.

$\mathbb{A}$GREAT deal of drawn work that is now being very much done is most beautiful, lasting, and not at all difficulf to execute, provided the worker has neat fingers and is care.


FIO 1, which shows how the threads are prepared to form comptete squares.
lul about the preparation and execution of her work.
This embroidery requires always to be donte on a frame. You can get very nice hand frames either to screw on the table or to hold in the hand, both are made on the same principle, namely, two hoops which fit one into another. Whenthethreads are drawn the linen is stretched over the smaller hoop, and the larger being pressed over it stmins the material ready for working.

A lady who does this work most beautifully told us the other day that in default of a frame sile has used the framework of a slate, having knocked the slate out first of all and then having wound flannel over the woodwork.

In our illustration you see a good specimen of this work in a section of a

## TABLE-CENTRE.

This pattern can be used in a very

st Iftu. 2 punto-tirato knoks confart the ctusters of five threads each tn the middte.
great many ways, and adapted to all kinds of purposes. It is a series of squares in which wheels, single crossings, and French knots are seen.

This is only one of the many ways of doing this work, but the preparation of the linen is exactly the same for all the designs, though, for some patterns, fewer threads are drawn in some part of them. As a general rule, thefiner the linen the better can these designs be done. A great deal of drawing of threads has to be done, and in the coarser linens they are moreapt to move, and are consequently more troublesome to manage than the finer kinds.

Choose good linen of which the warp and woof are equal, or else you cannot
do gool work. This exauple dono in white linen, is intemed to be lined with colored silk.

Before beginning any explamations as to how to execute this beautiful work, we must warn our readers that it can only be execnter by those who will exercise the very greatest care and neatness. A snip of the scissors-which, by the way, must be sharp and finelypointed - too much, and a piece of work over which you lhave spent many hours is completely ruined. It is impossible to remedry any mistake made, and we must admit that it is more than easy to make one. This applies, of course, to the drawing and cutting of the threads, the actual working is easy enough, and a mistake not mpossible to rectify.

## TIIF DREEARATION OF TIFF L.INFN.

Besides being most careful to choose a linen of good quality, you must be very accurate and measure exactly where you wish to begin 3 outr work. and then cut through the requisite number of threads.

In the example scen in Fig i, twenty threads were drawn each way, forming comptete squares The edges of the linen where the threads were cut must be button hole stitched with fine white flax. Do the button-hole stitch about three or four threads deep, and let it be done with yery fine linen thred.

IIaving button-holed round any raw elges, you procced as follows:

Secure your thread at the back of the button-hole stitch, and then push your neerlte to the front exge. Next make either single crossing or clusters, or whatever pattern you decide upon, with the drawn threads.

In Fig. 2 iunto-tirato confine the clusters of five threads each in the middle. If you look at the position of the needle you will sce how this is done. When you come to the outer side, fasten off your stitches at the back.

When you take the lines diagonally, so as to form the foundation for the wheels, then you secure a thread in one comer and carry it right across, fastening it at each corner of the linen square with a punto-tirato knot exactly as you see done in the illustration.

The lines are taken, as you see in this example, across the linen squares diagonally. This is the way in which they go for the pattern of the table-centre. A Freuch knot is placed in the
centre where the lines cross, and also m the space left between them.

In Fig. 2 the lines go over the linen squares, and you can do wheels on them, as will be seen in another example.

If you want to leave your linen squares frec to do some embroderel pattern on them, then do not take sour line over the square but under it. securing the thread, however. by a twy punto-tirato stitch at eacls corner.

## CORNER OF TEA-CLOTII.

This corner is first of all hemstitcherl, and then comes three rows of drawn threads. simply caught together by a punto-tirato knot. The linen is drawa in the usual way for squares, and then the design is worked on a frame.

Ordinary wheels are formed in the vacant spaces, and these are simply secured in the middle where the threats cross, and no darning in and out is dum.

The threads which are left are caught together four tumes in the middle. The centre square of linen is done in a raised wheel, and those round it in French knots and a darned cross. The latter is done on the same plan as the raised wheel, but over four spokes instead of eight. The ends of threads used for the work are left on purpose to show you how to manage them.

You can, of course, on a hand frame only, have a small portion of the linen with the drawn threads ready to be worked. When that is completed you move the frame on to a fresh piece. Of course, it is most important to have your threads quite strong and goorl, so that when you are working and your thread get thin, take a fresh one. At the same time in many of the desions the thread lasts very well, and it is a pity to fasten off when you come to the end of the part you have on the frame.

The right way is to leave the thread hanging. Here they have been cut off short. as to have left them in their full length would only have confused the illustration. But where you see short ends, a length of flax originally was hanging, and when the moving of the frame exposed the fresh piece to be worked, the end was threaded intu a needle and the work proceeded with.

In this example you see the desiga in various stages of being worked.

By these examples, you will see the kind of patterns which are done in this lovely work.
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extended 1 and inclu nere of tl Eicry pro bost and $h$ of the gues amval at D drawn by fc the parties

Seek $n$ Thine be While

## Gueste at Dentonla Park.

$T$HE staff of the Toronto office of the Massey-Harris Co. had a very enjoyable experience on the afternoon of Saturday, Aug. 25, when they were the guests of the President and Mrs. W. E. H. Massey, at their sumuer residence, Dentonia Park. Inwataons for the garden party lad been
street railway. Upon reaching Dentonia, the guests were received on the lawn by Mr, and Mrs. Massey, after which refreshments were served and the visitors wandered at will over the estate, inspecting the various points of interest on the experimental farm or finding other amusement and enjoy-


ON TIE LAWN AT DENTONIA.
[Thoto by C. R. Afanro.
extended to every member of the staff, and included the wives of those who ncre of the noble army of benedicts. Every provision had been made by the host and hostess to ensure the comfort of the guests, both en route to and after amval at Dentonia "Tally-hos," each drawn by four spirited horses, conveyed the parties from the terminus of the
ment according to their desites. After tea had been served, the guests, who had thoroughly enjoyed their visit, bade their host and hostess good-night. One member of the staff had brouglit with him his camem, and he has provided us with a memento of the occasion in the accompanying photograph.

Strong Heart.


## A. Boy Inventor.

HoOW important to the world may be the turning of boys' thoughts into the right channel is indicated by the fact that the telephone was originated by Prof. A, G. Bell when he was a boy. His father, the venerable Prol.'A. M. Bell, givesan account of the
"All; of course, set to work, but nothing of startling novelty was devised The scheme of my second son, A i; Bell, was, however. the best. This contest-as well as the whole course of the boys' education-directed their minds to the subject, until the sole survivor, of the lads came to the conclusion

"Did yoo say 'svoar'?"
matter in a letter published in Mr. George Iles" new wort, "Flame, Electricity and the Camera."
"In' the boyhood of my three sons I took them to see the speaking-machine constructed by Herr Faber, and we were all greatly interested in it professionally. To test their theoretical knowledge and their mechanical ingenuity, 1 . offered a prize to the one who should produce the best results in imitation of speech by mechanical means.
that imitative mechanism might be dispensed with, and merely the vibrations of speech be transmitted to an electnc wire.
"This was entirely,his own idea. He illustrated it to me by diagrans, and sketched out the whole plan of centraloffice communication long before anything had been done for the practical realization of the iden. I can clam nothing in the telephone but the impulse whica led to the invention."

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## A Schoolboy Militla.

AMOVEMENT is now in progress. in England which, if successful, will put exery, public schoolboy in the land in training as a possible recruit for the British army. The plan is to make military drill compulsory in all the board or public schools; to place the training in the hands of regulat ammy officers, with inspections by representatives of the war office; and in addition, to establish a schoolboy militia-in the shape of a cadet corps and battalions. under the direct control of the war office, with financial support from the government.
The plan originated with the Earl of Meath, and although it has provoked considerable discussion in the English papers, has been commended by Lord Roberts; Lord Wolseley, commander-an-chief of the British amy; Lord Wantage, chairmau of the British Red Cross Society, and Lord Methuen.
Most of the boys who attend the English board schools enter school.at the age of eleven or twelve years, and leave at the age of fourteen or filteen.

The new plan will therefore give them three years of drill in the manual of anns, in marching, formation and general physical culture which, forms a much more importint part of military training abroad thian in this country.
When the boys leave school the cadet corps will be ready to receive thern. There they will be armed with catbines, will drill once or twice a weak, practise markstuatship and go into' camp for a month in summer. It is . calculated that the plan would add four million embryo soldiers to the British army.
The advocates of the mensure quote the remark of the late Sir Joseph Whitwoith, the eminent;inechanical engineer, that men thus trained were worth filty cents a day inore thañ ordinary men, on account of their discipline, alertness and ability to act together. They also believe that in this way the ranks of the corner loafers will be reduced, and above all, that every young Englishman who attends the board schools will rective a practical training for the defence of his country, should occasion arise.

## ALL KINDS OF LITTLEPEOPLE.



Intrle Bess (to gentleman caller): "You aint black, are you, Mr. L. ?"
"Black, child? No, I should hope not. What made you think I was?"
" Ob, nothin'; 'cept: pa said you was awful niggardly,":

Teacher: "Now, Tommy, give me a sentence, and then we'll change it to the imperative form."
Tommy: "The horse draws the waggon."
Teacher: "Now put it in the imperatuve."
Tommy: "Gee-up."

AdNris (who is taking her-nephew. age ten, out for a ride): "Aren't you enjoying the run, Frank? You seem awfully quiet:"
Frank: "Well, auntie, I'm just thinking what your young mani would say if he knew that you were out with. mealone."

Sxale boy (leading in a tramp): "Oh, mother, this poor oid gentleman says he hasn't had a thing to eat for eight moriths, so I've just invited him biome with tue to lunch with ws."
"There is but one kind of rock that grows," said the professor. "Can any of you mention it?"
"Yes, sir," replied the Jrish boy, " the shamrock."
"Now, Harry," "**** the juvenite class, "what: is the meal : we eat in the morning.called?"
"Oatmeal," was the promipt reply. **
Tommy: "Did you do much fighting during the war, pat"

Pa: "I did my share of it, Tommy."
Tommy: "Did you make the enemy xun?"
Pa: "You'reright; I did; Tompy:"
Tommy: "Did theycatch you-pa?".






Wise
amd

Cirid Inkpek（to Scotch visitor，after flaving）： ＂Iflle tay rum，sur）＂
scerent fisiror：＂weel，I＇m na fond of rum； but I weidna refure a drap whusky i＊
A PAsusk＇s man took the wilage toctor a note the other day；and with some difficulty．Medicus spelt out，＂lieace send me a thottle of fizzic＂

Halloa，＂exclammed the do－tor，＂ $5 \cdot 1-2-2-t-c$ docsn＇t stell phy＊ic＊

Don＇t $1 t$ ？ ．answered the rustic，＂what do at spell then？＂

The doctor gave it up．
Tustwo men had talked for a tante in the ima．
＂Arejougoing to hear barkinvtecture to－niglit？＂ stid otte
＂Yes＂returned the ot ther
＂Trkemsadsiceand dowt $I$ hearthat lie $\$$ ant awlit hore
＂I nuat go，＂sald the other．＂I＇m Harkitis＂
Datgitisa．＂Oh．japa．I＇ve Jut got the mont lovely 3 acining cosiume you ever xiw．＂

1＂ApA（bucily）：＂I Im glallyoulbke it：＂
Datcintkx：＊int toosweet for anyihing．Now all we need is a yacht．＊
＂Talat＇s a ternble noive in the tuursery Motls sad the matress．$"$ What＇s the matter ？Can＇tyun keep the baly quilet ？＂
＂Shure，ma＇am，＂repiled Molly，＂I can＂t kecp him quict unless I Iet hint male a noive．＊
Jubge ．＂So the prisoner mit you on the head with a brich，dushe？＂
McGinty：＂Yex jer honor＂
Judar ．＂But st seem．lie didn＇t quite kill you， anyway？＂
McGisty＂No，tad＂cess to him，but at $s$ wish－ ing he liad on do be．＂
veras：＂Why do you wish that？＂
ScGintr．． 1 egorry．thits oi would havescent the schoundrel hanged for murther ！＂
＂Itupny．Jear，I can＇t wait to tell you what i am going to buy youi
＂Barling wife．what is it？＂
＊Well，I＇m going to set a silver card－tray，a bronze Ifercules for the mantelpiece，and a new Persian rugto pat in front of my dressing table． What are you going to do for me．Tootrey？
$" I$ ve loen thinking，Jane and have made up my mind to get ；ou a new shaving brush．＂

＂No，unt I＇m etigaged and that＇s as geod ax mar＊ ricd．＂
＂It＇s better，if you onty knswr it．＂
＂I＇ve a dreadful coid doctor＂
＂Isees ou have Let me feel your puice 11 ＇m S＇ex Fou＇sl better take a hot txith，and under no circumistances get 3 our feet wet．
＊Do sou ireat your new servant as one of your fximily

Weil，hardly．，hut she trents us as though we were metnbers of her family．＂
THE HENPECESD IHESMND：＂Ismy rife RoHg ont，Mary？＂
＂Y＇es Kir．＂
＂Do you xnow il 1 am going with her？＂
 a meetmg．＂1 \＆ this inagitigeent Empire．＂
＂You are．indeed，＂sald a bystander，＂and a vulgar one at that．＂
＂HExRT，＂she said＂you don＇t znow what a toothing influevee you have oll tue．＂＊
＂My darling．＂be whispered softis，while a siad light came into his eyex＂can it le so？＂
＂Yes＂she said，＂wheu you are here K atways feclinclined to sleep．＂

ARDENT Scitor：＂T laymy fortuneat your feet．＊＊
Palk Laby：＂J＇ortunel I didn＇t know youlhad money＊＊

ARDRNT Surfor ：＂I haven＇t Touch；but it tates very littie to cover those ing feet．＂

1／e got her．
＂Yoor greatest enemy is whiskey，＂sall the parson to ant incorrigible member of his foch
＂But．＂sald the waywatd oue，＂you lissealwzys told us to love our enemies＂
＂Yes，＂nnswered the good man，＂Gut not to swallow thein．＇
HOBEY IfRVPECR＂Paps，what is a tuchelor？＂
Mk．HenPhek，＂A baciselot，my sot is 3 man to ve envied，only be sute you don＇t tell your ina i naid so．＂
Sile：＂Don＇t you think I hise a pretty mouth ${ }^{\text {P }}$
IIf（absent－mindediy）＂Ves，darling，it xsimpl； mintrose．＇

OLD MiLLYONS：＂Youngman，iny daughtertels me＞ou hissed her last tixght＂
lerxcival．Toortys．Well，if she wants to go bragging about it，that＇s her privalege＂

MRS CLAN\＆ER－＂Is that gentlemanstendang by the door a fracisi of yourt？＇

MRs，WIACKER：＂Oh，Ho，indeed．That＇s my hustagd．＂
IKOGAN：＂Do you belicre in dreame Mike？＂
DL゙GAS＊Haifin an＇I dol Iast night Idjrema I wat awake，an in the inormin me dhreans cane thrue．＂
＂Sow，honestly，Maud，didn＇t Jack propose last eversitg？＂．
＂Why： $\mathrm{y}-\mathrm{ce-s}$ ！But how did you sucss＂＂
$\because$ noticed that youdidn＇t have that worrsed toot this moruing．＂
Mqs．McCanty＊＂An＇ye＇ve raised quoile a lig fanily．3irs．siurphy？＂
Mks．Muspur（with pride）．＂Sivin polaceman， Mrs．Neconty＂
＂AND what doyou Fegardast itegreatest triuntis of woders surgery？＂
＂Collecting the bills，＂promptly fesponded the great practitioner．

WEED：＂I lose the smetl of a good carar．＂
LUTT＂And Ilone the taste of one I＇llitell yon what to do．Son buy a good cigar and rill smoke it．Then each of us will get what he tikes so much．＂
JoDoz（sternly）：＂You are a pitisble specimen of humanity．Whit brought 3 outo all this degra－ dation and disgrace？

IRIsoNER（proudly）：＂It took three copperx yer washup！＂
＂GENTLBMES of the Jurs．＂sald a blundenos councel，in an action about some pigs，＂there were just thitty－six hoge ${ }^{12}$ that droie：please to re－ member that fact－ithitt）six hogs－fust exactly three timesas many as there are in that jury－bur， gentlemen．＂

That counscl did not gain his case．

## 己tinsstu－年）arris まllnstrate



rartio dx posucuss if The mestr Patss．


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## Shrapnel.

Cormets, the Iritish Service smokeless powder, is composed of fifty-erght parts of gun,cotton, and five parts of vascline.

The British loores dispateliel from India to Clima consists of 223 officers, 30S warrant and non-commissioned offieers and men, 9,540 native officers and men. 7,170 followers, 1,280 horses and pouics, 2,060 mules, six guns, and eleven Maxims.

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{ }^{* *}{ }^{*}
$$

Many of the Kaffirs in South Africa have aequired considerable sums of moncy through the present war by supplyiag both Britons and Boers with luxuries at fabulous prices. The Kaffirs could only be persuaded to part with such things as bad eggs and sour milk and other "luxures" for very often ten times their real value.

Every British soldict's kit, when on active service, is supplied with a first field antiseptic dressing for two or three wounds. It consists of a thin waterproof mackintosh 12 m . by 6 m . a gauze bandage $4 / 2 \mathrm{yds}$. long, folded fint, a similar piece of gauze, safety pins, and a compressed dressing. Directions for use are printed both on the outside and the inside of the waterproof covers.

Carefut, calculations given by a high official in the war office reveal that the 200,000 men who are being fed in South Africa on home provisions consume in six months as follows. 16,000 tons of preserved meat, 16,000 tons of biscuit, 170 tons of tea, 3.000 tons of sugar, 340 tons of coffee, 4,000 tons of jam, 500 tons of salt, thirty of pepper, and 8,000 of vegetables.

$$
*^{*}
$$

Sevents-ose gums of position, with 11,740 rounds of ammunition; 123 fieldguns, with 49.400 rounds of ammunition: and 279 machine guns, with $4,228,400$ rounds of ammunition, have been supplied to China by firms in England since 1895. Four hundred and sixty thousand Mauser rifles, with $3,000,000$ rounds of ammunition, were supplied to China last year by a Gemman firm.

The summer clothing for the fietman troops who are being sent out to China will be "drilling," which is considerel more durable than kliaki. F:ach man will also be provided with a straw hat The German government has ordered two mullion cigars and ten toms of tobacco for the use of the troops in China.

Stwer the South African War commenced we have spent many thousands of pounds in the United States for supplies. The greater portion of this amount has been invested in live stock It is estimated that 18,000 mules and 8,000 horses have been shipped from the States to South Africa, at an averdge cost of $£ 12$ and $£_{15}$ each respectus)! **
Sir F. Hodgson states that when it was decided that he and his party should endeavor to make an escape from Coomassie he hardly darel hope that success would attend their effort, as there were between 25,000 and 35,000 Ashantis barring the way. But the: eluded the enemy's vigilance mamly owing to the excellence of their guides. although the journey was attended by great hardships.

I.ord Roberts' energy has been a great surprise to the officers under him. and more especially to his persomal staff. Every morning he is up before daybreak and stays in the saddle till afternoon Wherev he halts he has himself placed in connection with the telegraph, and recenves and answers messages himself. In spite of the hard work, however, the latest report siys he looks in splendid health.

The annexatron of the Orange Free State has added some 43,000 square miles to the British Empme The land lends itself particularly to cattic-breeding. although it has not been consadered unsutable for thlige What the admimistration of the Orange State will be in the future has not yet been decided. Previously the country has been divided into eighteen distruts, each under the control of a landdrost or magistrate, apponted by the Presiunt and confirmed.by the Volksraad.

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Thirre are no fewer than thirtyseven peers and twenty-seven members of $t$ : 'Imperial I Iouse of Commons now serving at the front.


One hundrepand fity one officers and 3.500 men were released when the british troops occupied Pretoria. Nime hundred prisoners were carried of by the Boers, who would undoubtedly have taken the lot had they not been dis. turbed by our soldiers.

The two Army Coris in the field in South Africa consist of 74.000 men, of whom a proportion are "non-combatants" "The war strength of each is as follows - Officers and men, 36.987 . guns, 90 ; carts and wagons, 1,573 ; horses and mules, 12,846 .

It is a peculiar fact that Lord Kitchener gained his first experience as a soldier under the French flag. At the outbreak of the war of 1870 he offered himself as a volunteer to General Chanzy, commander of the army of the Loire. On returning to England, after the fall of Paris, he obtained a commission in the Royal Engineers.

The percentage of deaths from wounds of all sorts among those admitted to hospitals during the present campaign in South Africa is only 5 pet cent. of the total wounded.
ir is reported that Mr. Steyn is very much disheartened at the loss of Bethelenin, and would in all probability have surrendered if De wet had not taken strong measures-even going so far as to threatent to shoot him-to prevent the ex-President from taking such a course.

It is cossidermb that many of the disasters which happened to our troops at the commencement of the South African Campaign were due to our ig. norance of the country. As a remedy for this, in future, whenever new territory is added to the British Empire, military surveys will at once be made and maps produced in the form of transparencies on fexible films for the use of our soldiers. The process will permit them to be reduced to a very tmall scaile, but at the same time the map will show every detail of the country with the aid of a small magni-
fying.glass.

## Fertilizing and its Relation to Practical Up-to-Date Farming.

REPORTS OF EXPERMMENTS MADF THROUGH THE ONTARIO AGRICULTERAL AND EXPERIMENTAL UNION.

Experments.-For the aive years, 1892, 1893. 1894, 1895 and 1896, cooperative experiments were conducted throughout Ontario by testing commercial fertilizers with oats, and in 1897, 1898 and 1899 by testing the same kinds and qualities of fertilizers with mangels and with corn. Both the fertilizers and the seed were weighed and done up separately and sent from the ontano Agritultural College to the expernmenters during each of the eight years.
Conclusions. - 1. The unferthlized land gave a less yreld than the fertized land in each of the years and with each of the three crops-oats, mangels and corn.
2. On some soils the application of the fertilizers had but little influence. and on others it about doubled the yucld of the crops.
3. The summary results from the application of the fertilizers show that the largest average yield was produced by sowing the complete fertilizer with oats; the nitrogenous fertilizer with mangels; and the potassic, nitrogenous, or complete fertilizer with corn.
4. The Iargest average increases in yields of crops per acre from using the fertilizers were as follows. 9.8 bushels of oats from sowing 213 K pounds per acre of the Mixed Fertilizer, costing \$3 57, or 36.4 cents for each extra bushel produced; 1.1 tons of corn from sowing 160 pounds per acre of Muriate of Potash, 160 pounds of Nitrate of Scda, or $2131 / 1$ pounds of Mixed Fertilizer, costing $\$ 3.84, \$ 3.52$, and $\$ 3.57$ respectively, or $\$ 3.49, \$ 3.20$, or $\$ 3.25$ for ench extra ton produced ; and 4.78 tons of mangels from sowing 160 pounds per acre of Notrate of Soda, costing $\$ 3.52$, or 73.6 cents for each extra ton produced.

