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A Journal of News and Literature for Rural Homes.
New Series Vol. Lt, No. b.I NDVEMBER-DECEMBER, I897. (whole Serles, Vol. xv.,No. 6

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2. Youngliother of the man-ger, Whatteart of joy was Thine, To see each hos-ry stran - gef


A span-gle is with stars, So let the ho-ly sto - sy Of that hugh otb be told Con-fes the Life Diznnel Sull, stll the $2 d=0-\pi$ - tion Of those gray Eash-ern seen


That threvsuch cold- en gio - गy O'er Beth-le-hen of old. Aht peenless was the pace - an
From an - *ion en - 10 ax troa Flows down the crowdiggearl And still the peer-less pae - as


Sang by the bosts of light..... A - bore the bills Junde as Oa that firs Coristrass eight.


# Massey-Harris Illustrated 

A Journal of News and Literature for Rural Homes.
New Serles Vol. 1., No. 6.] NOYEMBER-DECEMBER, 1897. [Whole Serles, Vol. XV., No. 6.


IIT certainlysecms strange that Bratain, the first in the arts of peace, is harilly, of ever, whthoat a war on her hamds in some part of the world. At tho
district of our Indian Empinc In the early dass of the trouble-the cand of August-the news from lidia was very disquicting, tho enemy scoring point

 IN TOCHI VAl.t.E8.
present monent tho British troojs luve not finished the task of putting down the rebellious tribes in tho north western
nfter point, owing, of course, to tho unprepared state, in regard to numbers, of the British troops in their raomo or less
isolated outposts. But tho lowering of the prestige of British arms, if it coald be called such, was but momentary. The tribes secural many points of vantige on the frontict on the ridses of mounthins, accessiblo only by narrow jassers, walled in by cliff. Thodislodgment of tho tribes from such points of vantapo,has. in fact, constituted the cam. paign;formectmin'Tommy Atkins at closo quarters is not tho kindof warfaro the nativo hillmon of Northern India relish. Buteven with orerything in their favor -a fort ress provided by naturo, Where. in but ferv instances they rould br jeached by bullet from a distanco, modern rifles and ammunition in abund

Her Majesty in that distant part of tho Empire. Itho taking of Dargai on Oct. 20th, was ono of the inost magnificent displaysofdash and courage recorded in the annals of Britisharms, repleto as thoso annals ase with tales of herosm and valour.
Oat first ilIustration depictsaregiment of Highlanders marchingdown a defile. Imagino them marching $u p$ the defilo in single line. or at the most two abreast; and at the head of tho defilcandalons most of its lencth, stoop cliff from which tho enemy, outnumbering them five or ten to one, are pouring down an incessant shower of builets. then some idea mas be gathered of what tahagagosition


THANA IN TIE SWAT valleg, witit hritisit casp.
ance, stolen at different times, the dusks hordes of India have been unable to resist tho dash of our fino fellows serving
on our Indian fronticr means. Tho spectacle of Bengal Lancers' charging a stecp position is also ono that will
oxcite marvel. Our next illustration affords us a glimpso of tho Britials camp at Thana, in the Swat Valloy, thio country lying between Peshawur 18 miles from the castern end of tho Khyber Pass) and Chitral, the occupation of which by our troops a few ycars ako, is alleged by some to be tho cause of the present uprising among the natives, through whose territory we havo been forced to tale a "right of way."
The Indian war has largely monopolized the attention of the British public, but oven without that counter attraction the actuat figksing in the present Nilo campaign has not been such as to aturact British publicnttention in a highdegreo; for the enera's utter deficiency of tac-

Herbort Kiechener, tho Sirdar, has led into the Soudan.. and with which the reconquest of Nubia and of the Nile from Wady Halfa to Berber has been gradually but suroly effected. seems to bo as efficient and as completely equipped as any similarly mased force employed in tho Brttish Indian dominions.
In our next illustration is presented the sceno of tho Surdar's reception on his arrival at Berber with genoral acclamations in tho Anglo-Egyptian camp.

Our illustration on Page 161 must not be taken as a desiro on our part to "force the season," for it is truo to nature and depicts a tspical mid-dsy in November, at tho head of rako Ia Bargo, on the way to tho Klondyke. In tho country


TIE BRITISI ADYANCF IN TIE NOUDAN. RETIUSIASTIC RECETTION OF THE SIRDAR'S FORCE AS IT APTROACHED HELIUER.
tics, and thoinferior quality of his forces, a mero rabblo of wild Desert tribesmen rushing to combat in tho frenzy of Arab warfaro, has allowed each engagement to bo decided chicfly by thesteady valour of tho Soudaneso regiments
The Khedice is now served, thanks to British counsel and help, by a very efficient, though not too large, native army of Fellatioen or Egyptann peasants and of "black" or dusky Soudanese, well drilled and trained, partly under the command of English officers, thoroughly disciplined and obedient, and perbaps not less courageous than tho soldicry of most European States. With tho aid of a small contingent of troops of our own army, the force which Geseral Sir
from which the scene is taken, in winter at high. noon there is litilo more than twrilight. It is much moro like night than day, especially when tho moon is full. Evergthing is then frozen solid Elighty degrees of frost aro frequently expericnced, and tho only modo of travelling is as shown.
The armizal and subsoquent christening of the littlo Narlborough wero events of considerablo social importanco not only in Encland but in New York, in which city tho Dulo won and wedded his wifo. tho daughter of Mr. William Vanderbilt. Tho secno at the christening of tho Intestaddition to tho ancient houso of Nariborough is well depicted in our our nortillustration.

Nearly ninety years of age, Encland's Ginud Old Man still rehums all has brilliant mental fucultes, and is, necording to latcst accounts, contemplating
age. The very latest portrait of the venerablo statesman, whel forms our next illustration, shows him, Hs tho London Neus's expresses it, "in the en-


OS TH\&: W.I' TO KLONDYKF. MID-DAY IN NOVLBBER AT THE HEAD Ot* LAKE J, I JARGE.
writing a biography of the leading Charch dignitariss of the age Thereare fears, howeyer, that phystealls Mr. Gladstono is fecling theeffectsof hisadranced
joyment of free and casy beatitule "
In our last illustration is depicted a decided novelty. In Betlin there is now a regultar service of carts which bring the


tile latest porthat of mr, ghalistone.
workmen and factory-hands their midday meal. The carts ars owned by a privatocompany, whoso fixed charge for
o'clock and collect the basins containing the dinners. The wiyes, on handing the conductor their husbands' dinners, re-


DEIIVERINO DINNERS IN BERLIN.
transport is under fivo eents a month. The earts which aro heated by hot air. go round tie workmen's dwellings at ii
ceivo from him a clean basin to bo used for tho following day. The Old World is ahead of the Neve in many respects yet.

# Scientiiic AND MODERN INVENTION. 

## HOW ELECTRICITY IS BEINQ ADAPTED TO SURGICAL AND OTHER HOSPITAL USES.

(D)ORING the year St. Luke's Hospital, of New York, has moved into new quarters on Norning side Heights. Tho building is constructed with all the recognized improvements for tho best and safest treatment of hospital patients. The clectric plant is of intwrest lecause of the special nature of some of its departments.
Tho lighting plant itsclf is located in a separate power-station structure, and
six clectric elovators in the buildings, of the Ous type, and tweive largo electrically driven ventilating fans. Besides theso there are motors for driving tho pipe organ bellows, and for other minor uses throughout the hospital.
The switchboard provides for running the lights and motors in multiplo or independently, as desired. There are two sets of bus barg, to either of which any machine can be connected by double-

consists of four direct-connected units, tho dynamos being $50-k$ Gen General Electric multipolar conspound-wound machines. Tho engines are of horizontal high-speed type, three of them of the Ball-Wood make, and one of the Ames Iron Works. They all runat 280 revolutions per minute. The engues aro set at the four corners of a square, with the dynamos all facing tho inside of the syuare. Stearn is supplied to thoengines at 100 pounds' pressure by three return tubular boilers 20 ft . by 6 ft . in diameter. Theso unts supply current for somo 8500 lights and many motors located throughout tho different buildings. Thero aro
t1. rown machino switches at tho bottom of the board. Ono large double-polo single-throw switch in the centre of the boand throws these two sets of bus bars in multiple at will. In the daytime, when tho load is small, it is customary to throw the wholo losd in multiple on ono machine. At night when the load is sufficient to tax soveral machines, this main switch is opened, and the motor load is soparated from the lighting load. This gives closer regulation on tholighting circuits. The switchboard is provided with nino illunuinated dial Weston instruments in a row at tho twr, of the board. Three of theso instruments are
voltmeters and six ammeters. Ono voltmeter is connected to the highting and one to the motor bus bars, the thard voltmeter being used as a inachino insurument, and provided with a switch for throwing it onto any ono of tho dynamos. Four of tho ammeters measume tho respectivo ourputs of then four dynamos, the other two measurng, lespectively, tho total outputs of tho lighting and motor systems.

Tho building is divided, in accordance with molern husphal phictice, mito two pavilions, which are cunneceted by a narrow corrilor oth cach thoot. The main
provent panic in caso of anysuddonalarm at night when tho buldurf is dark. In a small room on the fifth floor is placed a completo X-ray outfit. Current from tho X-ray coil is controlled by a largo ironclad ricostat fastened to the wall. Tho current is interrapted by a doublo contnet wheel driven at a high speal by a small Lundell motor.
Thoillumination of thomain operating room is of particular interest. This room is located in the dome of the buldimg, whero it can get most perfect illimination by day. For work aftar nightfall tho room is provided with a


NAIN OPERATING KOOS SIHOWINO SWINOINO KERL.ECTOK.
feelers are run independently from the switch-board to the pavilions. Each pavilion is also madependently yontulated by forced-draft ventilators. The buildings aro also provided with an independent comnon distribution system, supplying somo 300 lamps srattered through all tho waris and corritors. Thesolamps have no switches or keys, but aro all lighted or extinguished simultaneously by an elortromagnetic switch in the engino room at the right-hand side of tho switchboard. This switch may bo ciosed bs pressing any ono of some 300 push-buttons distributed over the buildangs. This provision is intended to
vely largonumber of incandescent lamps. Besido tho electroliers in the upper part of tho room, long brass conduits aro stretched across from column to column as shown in the illustration, with sockets sct in overy fow inches on the underside of the conduit. A large rectanguiar reffector is also provided on the end of a long horizontal swinging bracket. This reflector can bo swung around and can bo brought immediately over tho operating table. Ja the walls about tho room, wall scekets aro set from which current can to drawn for electric heaters, cautery and special lamp worl.

## AN ATLANTIC EPISODE.

## I.

IN tho early oighties I was returning to America in one of the Guion steamers - the old Alaskia - $n$ boat that held tho championship for record time in those days. Being lato in tho autumn, wo had a pretty crowded ship, and the decks presented a haely sceno as wo headed down for (dueenstown in glorious weather. The passengers, for the most part, were free-boin citizens of the States, who had been scampering about Europe for the past fow months, and wero carrying back a very curtous collection in tho shape of relics and antiques-" pucked up on the Continent for amero song"-whach they purposed formally presenting, to tho musutums in ther nattvo citics. I happened to be a bit of an antiquarianmy self, and having had an opportuaty of examining some of thesohighly prized curios, I was forced to the conclusion that they bore unmistakablo ovidence of having been "mado in Germany."

When you have a crowd of people cooped up on board ship, in spito of deck frames and other forms of amusement it is not alwnys easy to fill in a long day in an enjoyable manner. At such times a sensation of any kind is a reritable goil-send: it affords a topic of conversation for the ladies, and a field of spectaIntion for tho men. In tho latter caso the interest is sustained by a f. O exchange of bets.
In the present instanco, before we wero well out of sight of the Irish coast, our sensation was proyided for us. Ono day, among the second-clnss passengers on the lower deck, a vision of beauty suddenly burst upon us in tho shape of a young girl of decidedly Jewish appearance. Positively, she was without exception the loveliest creaturo I ever laid oycs upon. Hor slim fguro was exyuioitely formed, and thero was an caso and grace in nvery movement that gavo her an irresistiblo atiraction.
Sho was accompanied by a stern-looking individual with bushy whiskers-old enough to bo her father, apparentlywho hovered near her during tho short timo sho remained on deck, and writched her with a sort of prim intentness as if half afraid to trust her out of his sight. This surveillanco, however, did not appear to causo her ans great concern, in fact, she seemed to conipletely ignore
tho presence of her companion, or custodian, or whintover ho might be.
It was amusing to observo the effect her apjearanco produced upon the occllpants of the upper deck. One and ail crowded to tho rails, anxious to get a closer look at her; those in the background crameng their nechs over the shoulders of thoso in fiont. Even the women weio lond in their almiration; but as to tho men-well, though I was rather on tho shady side of forty myself at the time I must confess that. in cominon wath tho rest, I was completely carricd away by her beauty.

Wo were not given much timo to indulgo our admiration, however. The stern-looking individual with the whiskers suddenly stepped up to tho grit's sule and whispered something in her ear. Iustantly her sparkhug eyes were turned upon tho row of eager faces looking down upon her, and for the first time sho appeared to becomo conscious of tho sensation sho had caused. Wath a halfshy, half-rogushsmile, which displayed teeth of dazzling whitencss, slio moved avay with her companion and disappeared from view.
For the remainder of that day, in the saloon, the smoke-room, or on the deck. this singular and ill-assorted pair formed the chief topic of conversation. They wero promptiy chi istened, "Beauty and the Beast." Everyono raved about the gin, but the man came in for a far share of envious and sarcastic remarks. Bets wero freely laid as to whether ho was her father, brother, or husband. Tho latter supposition was pencrally regarded as an utter absurdity, though there were not a few who steck to it tenaciously enough. Among theso was a yoalig American named Westcott. with whore I had cot rather friendly, who offered to decide the matter out of hand by paying a surreptitious visit to tho second cabin, interviowing the steward, and, if necessary, bearding the bushywhiskered individual himself.

This proposition was made in the smokeroom lato in tho evening, and was received with acclamation on all sides. For mysclf, I certamly thought Westcott was going a bit too far, and possibly micht have reason to repent his rashness. However, as at was no aflair of mine, I dud not attempt to restrain him.

When ho was gone, we rwaited the result of his expedition with a certain amount of eagerness, Everyone was curious to know how it would fare with
him. Halt an hour passel, but ho did not return. Opimons were divided as to whether he was having a teteci-tete with the beautiful Jewess, or whether her grin. custodian was making is unpleas. ant for him.

## II.

I biad just stepped out on deck for a breath of ficshair, when Westcotz suddenly brusited past inc, with a strange. set look upon his face. Ho appeased so different from the maj; careless, young fellow who had left us a short timo before. I was positively stantled at the change in him. Instead of making for the smokeroom, he went straight down into the saloon, where I heard him call to tho steward for brandy. It was plain that tho adyenturous youth had recerved some sort of a shock, which had sobered him considerably. We saw no moro of limn for the remainder of that evening.

Tho followng mornug he was extremely retieentupon the subject of his visit Wo could scarcely get a word out of him about it To all our questions ho simply mpheed that he had learned nothing regarding the relationship between the girl and the man, though lic admatted having had a conversation with tho latter. He appeared so anxious to avoud all refercnce to the affair, and trok such pains to have his escapade hushed up, wo began to suspect therownssomething amiss. The general belief was, however, that the had fallen hopelessly in lovo with the girl.

Later in the day I happened to encombter him on deck, still loohing uncommonly grave. He immediatals took measide as if he had something of amportance to romenunicate.
"Xostyn" be said, in the most scrious manner : this is a shocking affair!"
"What is?"
"Why, alout that girl."
"What about her?"
"Quito enough I can assure voul. Listen- that lovely, innocent-looking creature is a murdercas!"
"A muderess?"
"It's a fact, and a horribly cruel one into tho baicain That man who is arcompanying her is a detertive, and is taking her bark to the States in custody. As soon as ever they arrive, she will be put on trial for her life."
"You amazo me!"
"I shouldn't wonder. I tell son it has been a bit of a shock to me-about the worst I have had for somo considerable time. Last night the detretive, whoso name is Wade, gavo me all particnlars, and showed mo a nowspaper cutting, rith a full report of the caseBripfly, her history is this: It appears that her name originally was Rachel Adsms, and she formeriy resided at Hartvillo, in the State of New York.

About twelro months atyo she married a man named Lovi, $n$ middle-nged, miserly Jow, but inmensely weattiy by all accounts. Tho mariage, of courso, was a wretched one, as was only to bo exinected under the circumstances. Before the year was ont, the girl had murdered her husband in the most cruel and promeditited manner, plundered the safo and escaped to Eingland. Wade was sent after her, and succeeded in arresting her in London."
"But, my dear frllow, jutsing by her appearameo when wo saw her on deck yesterday, she looks mything but a inurderess."
"That is the curious part of it," Westcott replied, gravely. "Wade tells mo he can't very well make her out. On ordmay occasion? she seems as cay and havely ns possible, and apparently is quito oblivious of the fact that she has committed any crime whatever. At tumes, however tho knowledge of her guift appears to burst upon lirrall in a moment, and then ho has actually to restrann her lest sho shoult do herself a fatal mpary. of conrse," ho added. pulling hamself up sudidenly. "the detuctive didn't want the story to be blabbed all over tho shup; in fact, ho asked mo siserally to keep it to myself, so I tell 3 wn in strict confidence, you know:"
It was only to bo expected that beforo the day was over, Westeott had told the samo tale to two or three others-also "in strict confidence." A sensational report of this kind does not take long to spread on board ship. That ovening tho smokeroom was ringing with the nows; poher and ecarts wero neclected for the time being, and the men fell to discussing the case in all its bcarmps. It was evident that the gencral opinion was setting strongly in tho giri's favour.
"Even supposing," said Kolstov, a Cincinnati lawyer, "she was reilly puilty of this act., it must have been done in a fit of temporary insenity. Her whole bearing goes to prove this. I don't believo there's a jury in the States would convict her."
"Ah, but you lose sight of the fact that, according to Wade's statement. the evidenco clearly shows the crime to bn premeditated," putin Westcott "Bosides, he telis me there's a strong Jewish element in Hartville, and they are all up in arms against her. Ho declares they will moro hearen and earth to get her convicted."
"That alters tho aspect of the case considerably," remarked Kelston, reflectjvely. "If the Jews have the upper hand, I wouldn't give much for her clisnces."
"It's a bluo look-out for her, certainly," said Semntor Wiles, of Dakota.

Thereupon an hnimated discussion ensued as to what could be done for the
girl. It was agrecd on all sides that somo steps shouli bo tahen to save her from theclutches of tho Jewish fratermity at liartwille, though how to accomphish thes was hot an edsy mattea to dechde.

## IIl.

For tho next day or two the gill appeared refathely every mumat, het grim custodana sticking to her liko a leceh all tho tume sho remanmed on deck. If sho had creited a sensitions before, it can well be magined that our interest was by no means abated by what we hall learned of her hastory. She alway's aypeared bright and antmated, gazing vut over the he:ving sea with almost childish delight, and apparently unconsenous of the ebger louks bent upon her fiom the upper deck.

One morning, however, sho seemed rather sad and pensive. Suddenls, as wo "atelsed her, sho throw up her arms with a wild acsture of despar, uttered a stitied cry, and rushed back towards the cabin. Tho detectivo strodo after hea with a decaded look of alarm on his face.

I verily beleves thero wasn't a man amonest us through whom that cry dad not thrill. It moved us to action at any ratc. By common consent wead goursed to tho sumhe-room in order to deliberate as to how wo could best scrvo her. Everyone was eager to deviso somo means of effecting her deliverance, ior one and all belieyed her to boinnocent in intention, if not in fact.
"Tell vou what," said Wrestcott, leading off." wo must bribe thitt bruto of a detective to let her escape ammedtatel wo reach New York."
"That's easier said than done," I replied.
"I don't know abont that," remarked Kelston. "Every man hans his price, you must rememler-as wolaryers have good reason to know. I suppose a de-tectire-especially a New Yorker-is no excention to thu general rule."
"Well, wecan only mako the attempt." said Westcott. "Let us club tocether and see what amount wo can mako up. Put mo down for two handred and gifty dollars to start with."
That sct the ball rolling, and in ten minutes tho tidy sum of five thousand dollars was subscrited. Westcott. Kelston and myself wero deputed to apr proach the detectivo and sound hom on tho subject. As wo had now run into tho last two days of our roynge, and as our negotintions might possibly take somo little time, wo decided to mako the attempt that evening after dinner.
Accordingly, between cight and nino o'clock, wo mado our way to tho second cabin, prepared to do business. As luck would havo it wo met tho detective coming on deck, having, as he informed us, just locked up his prosoner for tho mght.
"Inok here," said Wrestcolt, diawing him stade, confidentially, "wo havo comin to seo you about thit gial."

Thu detecine shook his heeal dolefally.
"A sial case, gentlemen-vess sad inlecd," ho sitid.
" What wo her chances of an acequittal? " "tuputed Kelstwn.
"About is bud is they could be, I reckon. Tho Hartville Juns would tear her limb foom hamb if they had her at there meres. Ohd ha, her husbaml, was a leaking mim .unumpat them, I beliteve."
"Fhen sho mast never get to Hartville," sand Kelstun, decersely.
Tho detectise statid at him biakly. ovalently. y+utw at o loss th comprelumid his meaning.

I'vo gut he thio hee there, ans huw." ho sophual, "thumeh it guts a bint .igunst tho cran, I admit."

- How absut your warrant? " sad the lawser wath pufe sional mstanct. "I suppose there's no than in it?"

Tho detectivo mistintly proluted it, together with tho exti.dation piapels and other docaments bearmg on tho easo. Kelston ex,umathed them carefully, but they appeareet in perfect onder.
"There's onls one than for it, then." ho sad, hatnding them back. " 304 mast man.igo to let the girl slip through your fingers somehow."

For answer Wade simply turned on his heel, as if to bling the interview to an abrupt termination.
"Writ a moment," cried Kelston. "Don't bo in such a violent hurry, man. Nou let's get straight to business. We want to get the gul off, and if you assist us it wilf mean fivo thousind dollars in sour pocket."
"It really isn't fair, gentlemen." said the detcetive with evidrut cmotion. "It's been a trying joh cnough as it is. I'm a poor man, but I'd williagly give a sear's pay to have had no hand in tho matter. I've got daughters of my own, you sec, and-"
"Then st's settled," put in Westeott. "and it only remains for us to arrango the detals."
But it was very far from being settled. Tho detective stood out, and it took the best part of an hour to win him over. bit by bit ho gave way, until wo got him firm'y on our side.

There's only ono awkward thing, nbout it," he ssid, when wo had concluded arrangements. "If 1 let the girl cscape, how am 1 to account for it at headinuarters? I guess they'd seo through it sharn enough if I went to them with any lamo excuse."
Thercupon. Westcott hit upon a brilliant idea, which wediscussed fully befero separating. It wats decided to put the plan into operation the following evening, when we expected to be steaming in from Sandy Hook. The detective under
took to prepare the girl as to tho part sho had to play.
Shortly beforo twelve otlock tho next night, when the decks wero practically ceserted, ono of the stewardesses (whom wo had takien into our confidenco) mato her way towards the second cabin. wath ashawloverher arm. Paesently, Rachel Iovi camo rushing up on deck, closely followed by the detecise. Wade, howover, slipped on the stairs and rolled backwards, carryugs down two or threo others who were at hus heels. Meanwhite. the stowardess flung tho shawl over the girl's head, hurried hor away to her own cabin, and conceated her there.
No sooner had they disappeared than the detertive tlesw on deck, rushed to the side, and s'routed at tho top of has voto:
"A woman has jumped overboard!"
What a scene of commotion ensued. Tho ship was stopped, hebebnoys flung into the water, and a boat prompty lowered. Pcondo camo thing up from their cabins, ofticers hurried along tho decks, the men shonted, and tho women screamed. Through all the confusion the detective kept rushung about, telthas how his prisoner, in a fic of desperation. had broken away from him and thrown
herself into the sea. I must s.ay heacted his part remarkably well.
In nbout half an hour's time tho boat returned from its fruitless search, nud tho yoyngo was resumed. There was not tho least doubt in the minds of the matjorityof those on board that liachel Levi had disappeared for ever.
Next morning, when the ship was safely berthed, tho girl, carefulis disgursed, got on shore with tho throng. Sho informed us that she woild fo straight to St. Louis, whero sho lind friends. Quiten number of us sitw her to tho train. and slie received somethirg hiks an ovation when it steamed oft.
Did I reer come across the girl akain? Well, yes, I did. I eaught sight of her one diay in Denver about six months later, nud-there is no use disguistur the fact-she was accompanied by the bushy-whiskered individual who had given himself out to be detective Wade. They wero laughing and chatting in tho most friendly manner.
It suddenly dawned upon me that they were a pair of precions sharpers, at it that wo had been very neatly done during that voyage -J. I. Hornibreok in "Woman's Life."

## ENCYCLOPAEDIA OF FACTS AND FIGURES.



The frog, in orler to breathe, must keep its mouth shat.
*:
Nore than $1.250,000$ acres of the carth's surfaco are devoted to the cultivation of tobacco.

Extreme ugline is is on the list of disqualifieatiras lad down by the medtcal department for French conscripts.
${ }_{*}^{*}{ }^{*}$
The largest leekeeper in tho world is a Californian gentleman, who has 6,000 hises, producing $200,000 \mathrm{lbs}$. of honey yearly.

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Tae smallest salary paid to the head of a civilised Government is fifteen dollars a year, whirh is the official income of the President of the Republic of Andorra, in the Pgrinees.


A suower of toads recently fell on the railway track in Topelia, Kansas, so impeding the progress of a freight train that it had to stop.

## ***

Verv cheap are the summer resorts in tho mountains of Japan. Thele aro mineral sprilugs thero to which peasants brmes their own bedding and rice, paying only three cents a day for lodging and use of the water.
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Tue authorities at ono time wero so firmly convinced that Europeans could not livo in India without alcoholic stimulants that they discournged the formation of temperance societics among the soldiers. Opmon is now altogether changed. and tho English soldiers in India ancludo ao fewer than 20,400 total sbstainers.

## General Notes.

 official returns, is 2is, wou, un biashels compaed with gis, wu, wousheis im 1696.

Caxadian Wheat for Alistramia Dunthe the fiseal year enided June 30 , Canada shipped to Ausitralar $10 \times 1,6,5 \mathrm{~h}$ wheat and 9t,G11 bols. flom, having a

211 ; Holland, 212; Xanitoba, 20; Ger mi.uns. 19 , France, 17; Austria. 16f; Bitish Columbia, 16; Ontario 14; Humsary, 134 , Italy 12 ; (ynebec, 10; New South Wales, 13: all of Australasia, 91; Russia, scant 5.

Tueat your Potato Seed.-Frank A. Goolltue, Mamtota, states that potato seed soaked in the corrosive sublimato solution. one part mercuric chloride to 1003) parts of water, produced a largo crop of good quality, whlo seed not so treated, planted in an adjoining field, gave less than half a yiela of sc.abby potatoes.
${ }^{*}{ }^{*}$
Ferinno Pios for Pro-nit.-As soon as the pigs are laren enough to eat, provile a placo whero they can bo alven food apart fiom the larger hogs. If it is obtatuable, milk is one of the best rations for growing pigs. In its absience, shelled corn and oats, equal parts. grouml into a fino meal and made into a slop, is tho next best thing. Siome advocate custuing the cobs with tho coln and feeding it, but wo condemn this practice. The crushed co ${ }^{\text {b }}$, takes up room and is not digestible in tho hog's stomach. In feeding cattle this is all right, ns their stomachs require a cethain amount of rough feed. Push tho pugs as rapidlly as possible, and sell them when they weich all the way fiom 150 to 2501 lbs . according to the demands of the buyers. Study the market carefully and furnish what is wented. In futeming hogs. drop out the slop dar:ng the last four weeks and give them all tho corn they will eat up clean twice a das, and all tho clean cold water they will drink.
To get the fullest profit from your logs, butcher as many as you can at home nad turn them largely into sweet country lard and bacon. Many buyers will pay moro for these right from tho farm than thoy would have to pas in the general market.

The Dairy.

## The Farmers' Opportunity.

It is ono of tho strangest anomalies imaginable that Toronto and other cities of a provinco so csisentinilly nericultural s-s Ontario, have to depend alinost enterely upon the creamenies for their supply of really first-class butter, and much of tho creamery butter that is offerel for sala does not come withan severni giades of first-class. Knowng that thero is a veitable army of capablo butter inakers in tho fam honses of Ontatio, wa ato forced to tho conclusion thant thicy havo allowed themselves to bo forced out of the fiela through a mistaken dea that creamery, buthre must necessarily be in greater demand and receno a better price than dairy butter; than poor dairy butter, yes! than dairy butter of equal or better quality, no. is a writer in tio Anserican digriculturist of recent dato points out:
Creamery butter is tho standard in tho markiets becauso it is uniform and can bo had in quantities sufficient to supply the retail trado. Tho creameryman, howover, has his trials. Thompossibulity of overseeing the production and first handling of the milk is a scrious dafticulty, often causing at lower grado product. Unless a first-class buttermaker can bo obtained, much loss will result in many ways.
It is breause of theso drawbacks that there is still an opportunity for expelt privato dairymen to mako a butter far superior in quality to the averngocreainery product. There nro peoplo in almost every villago and town who areglad to obtain for family uson strictly gilt-edged article at its true value. To a limited exient this demand has teen met, but I am led to believe that tho field is by no means fully occupied.
To succeed in this it will often bo necessary tolay asido preconcei ved ideas. Tempering crean by the senso of fechul: or determining acidity by taste, will not answer. Butter owes its good qualitics yery largely to its treatment in tho ripening vat and only in a small degreo to tho worker.

Tho essential features of good butter making are, n puro, sweet cream of proper consistencs, ripened rather slowly at a temporaturo of 58 to 62 degrees. or a littlo higher, with or without a starter Tho acidits at churnine timo shonld be sot far from $0.7 \%$, preferally under than over, though tho writer has recently made a samplo of butter which scored ninety-nine points in a possible ono hundred from cream which at churning time showed $0.745 \%$.
Churning temperature is governed bs the ;er cent. of butter fat and degreo of
ripeness of the crean! also thr character of tho herd and periol of lactation. 'ltho temperaturo should be ruch that from 80 to 60 minutes are requiled for churming. Cream ought never to bo churned when it breaks in from fivo to ten minutes, as such treatrocnt is ruinous in point of quality and cconomy.
Excessive washing of butter is nlways at the expense of the flavor. If in just the right condition, it requires very littlo washing. Some prefer a wnshung of brino at $n$ temperature of 51 to 58 degrees. Good resules are obtitined in thas way. Tho thavor is supposed to be removed in $n$ less degres chan by the use of puro water. Color and salt of the best quatity are to bo used in quantities to suit tho trade. Working is important, i.e, it is importint to do just as fittlo of it ns will answer the purposo of ovenly incorpor ating tho salt and renoving moisture.
Stict cleanliness is to bo rigidly observed with overy implement and in every operation from beginning to end, not ono day in seven only, butevery day in tho year so long as the business continues.
A farmer who can produce a really fine flavored futter need not fear that ho will lose money by turning his efforts in this direction.
The refrigerator cars on the railway bring tho larger cities within reach of farmers hundreds of miles alvay, nnil tho cold storago facilities offered by most of these larger cities, remove tho necessity of immediate sale at "slaughter prices."

The Piggery.
Tuere aro instances whero a breeding sow has been kept a dozen years or more, but ns a rulo it is believed that seven ycars is the limit of usefulness as a breeder. When sho holds up her head like n cow in feeding it shows that she is losing her teeth, and is not to bo kept for breeding purposes.
**
Thif demand for fat porkers at all seasons of the year is gradually breaking up tho custom of feeding but ono lot yearly. This is an advantane, ns tho work is distributed and tho risk, mate:ially lessened. Besides, it gives an onfortunity of using the feed to better sdvantage.

A Cornespondent writes.-I have fed for years ${ }^{2}$-st corn and ground rye, tho corn in ear from the timo it is in roasting ear stago until it is hard, with ground ryn mixed overy morning with water, ono pail of the ground foed to four of water.

I do not feed it stale. My hors have tho run of clover after grain is off, with contimous supply of salt and wooi ashes. also a bate of pround suphur in a barrel. I have licard complaints of suckness from feeding new corn, but have always had healtity jiks by this method of feeding.

Litrise pigs will give returns fur tho eatra attention netensiry in preparing their food. Sco that each litile fellow fects ono teat, that he ma havo his sharo of the mother's milh. A hittle warm milk mado into a mash with muldilings will help tho sow to make moro and better mill and tho little pias to crow. Hayo plenty of fresh water on hand where tho sow and the piss can get it at all times. A little chareoal will prevent sour stomach. Health and thrift in breeding animals mean money in the farmer's locket.

## In the Poultry Yard.

Wis doubt if ant creature, domesticated, on tho farm ix subject to so many discasce as the fowl. and it transmits its delects to its oflspring with great certainty. Wo havo seen a malo with a lopped comb endow all his sons with tho same peeuliarity, although such chicks were hatched from eges laid by different hens. The roup is passel frona parent to offspring when it becomes a constitutional discase, and lack of vigor causes degeneracy. The remely is to use onls healthy and vigorous stock for breeding purpoces

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Probably, for eags alone, no other breels of fowls are so popmiar, the country over, as the Lenhorns and Minorcas: Iet they do not fill the bill for those who wish a general purposo breed. Tho latter class want a heavier, attractivo carcass hens that will hateh and raiso their chicks, and having tho ability to withstand severe weather. Prohably no other lureal has had so widon distribution in this comutry as the Plymonth Rock. Of later introluction is the Silver Wyandotec which has become rery popular. But still later came tho Whito Wyandotte. In somo points this breed execls tho Plymouth Rock, while it prohably falls behind it in none. In eolor, of coarse, itisunurh like the Whito Plymouth lloch. Weshow anexecllent illistration of tha purcered Whito Wyandotto cock They havoa low flat coinb, that will nut freezo in wanter, clean, yellow shin and legs, freo from dark pin feathers, and for the table,
camnot bo beaten. The breast is plump and full, whero tho Plymoutin Rock is liablo to bo a littlo sliarp and wedgeshaped. Tho Whito Wyandottes havo quiet dispositions, aro easily landled, makd excellent sitters and mothers, lay large, dark-colored eges, and are very simall eaters. If ono takes any prido in the appearance of the flock, 1 am suro that tho Wyandotte, with its snowy white plumage, clean, orange-jcllow legs and beak, and bright red comb. forms a pleasing contrast to the varicty of sliades foum in a flock of Plymouth Rocks. The perfect hen has not been produced, but in the largo brown-ege strain in Whito Wyandottes, moro good qualitics aro combined than in any other breed.

## Well Spent Labor.

## Easily Made Smokehouse.

A clicap smokehouse can bo made from an organ box (a) or anything in which theimeat can bo hung. Sct an old heating stove (l) in the ground cight or ten

fect from the box, preferably brlow it on a hillsite. To conduct tho smotio from the stove to tho house, lay an old stovo nime (c) under ground or use 6 -inch tilc. Tho stove must open on top.:

## A Feeding Pen for Hogs.

Where hogs aro fed near tho houso or barn, the fowls are apt to go among them and cat a largo portion of tho fecd. I.

sajs a correspondent, finally solved the problem by constructing a ferding pen so that tho hogs and pigs could go in and
out at pleasure, but funls of all kinds wero excluded. Butal at Geriblig floor several inflees above the sillfacu of the ground and enclose "th a tight hoand fence surmoumted with piekets a foot or mole long. Mako ono or moro opremes near tho groumd for the hozs and liang a door, $a$, from tho top so that it willswing pretty freely either w.s. Le., ther str.pps or hiuges that woik e-sity will answer. Tho hogs will soon learn to go back and forth but fowls will aut cuter. If thero are two sizes of hogs, mathe a purtieton and in it construat.osinallswhumeder just lareve enominh to admit this smaller jigs

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## To Prevent a Horse Kicking.

The illustration slows a device to bo used wheru a horso kichs hisstable companion. It is made from one-inch galvanized iron tubing. The two coruers aro screwed together with a return coupler. Pins no through holes in the upper ends and are attitchecl to the woodwork of the stall. A cord is fastened io the device for mising or toweringe as we quired. When not in use it is raised and

is well out of the way of everything. In use, it loos not imterlere at all with tho animal's movements. exeert to prevent his being too freo with hus fect and lezs.

## For Washing Farm Vehicles.

The deviceshown in the cut will savo mirl, time and labot ia "ashute wagonsA nartul, water-tight loos of the stinpo shown in thesllustration is slippol under
tho wheel when it has been " jacked" un. A pan of water is now poured in and tho whe rovolved. The dirt can thus be

removed quickly and much more easily thian when a jail is usel to holid the water. Once used the benefits of this device will bo very apparent.

## Treatment for Apple Choking.

A correspondent from the West writes: -The plan outlined and illustrated herewith is in general use in this section and has proved effectual, never causing injurs: Fig. 1 is mado of ariach round imm, tho end beine 5 inches apart, the framo 12 inches in length from tho sinall loops at the end to the handle. The ring near tho centro is 3 by 5 inches welded to the sido pieces. Puta small cord through the end loops. slip the ring into tho coll's month and fastent tho econt over the head.


Fic. 1. Fio. 2.
Turn the handlo down under tho juw, which will open tho mouth, and the cow call then bo lield withontfiarther trouble. If tho applo is not far down, it can bo romoved with tho hand. Tho cow cannot bite or throw her head around if tho hiandlo is held firmly. If tho applo is too far down to removo by hamt, zatio a riliber linse. Fig. 2, start through tho ring and push tho apple clear down into tho stomich,

## ...2AT THE... ERIItMP゚S Desk

Ti"HE Christmas season is fast drawing upon i.s. Before tho next issue of tho Massex-Mamis Inh.Usthintel appears, another Christmas Day will have been fone, and 1897 wili bo also among " the thingsthat have been." Nost heartily do wo wist all our many thousand friends in all parts of Cannila, and those-far from fow-in old England, and instillfurtherawny Australia, a very mery Christmas and a full measure of happiness and prosperity in the year so soon to dawn upon us. As wo look: around and prider Hion Canada's position of to-day, and remenber the lot of her people, wo feel that thero is not another country on the face of the earth in which "tho Jerry Christnans" should bo so misch in evidence. We are not a nation of aristocrats, still less an ageregation of plutocrats, but wearea homely, united prople, enjoying, for the most part, above the averago of worldly come forts; knowing practically nothing of the sting of that dire distress and lifesupping poverty which in the largo cities in tho older world and in tho United States, claims its thousands and tens oi thousands; tho romemberance of it eating like a canker into the hearts of true statesinen and of cerery thoughtful man and woman, most of all at a timo when Alt, mankind should bo rejoicing.
We havo our troubles and our trials, of course. Death stalks in our midst and Sorrowenters many a hoine. Disappointment in some matter largo or small, generally tho latter, is probably tho daily experience of all of us; because we are not freo from tho infirmity of the age, which gives to ambition too Inrge a share of the space belonging to contentment. Every individual lito has its shadows, and why should any ono of us in Canada expect to bo exempt? Nationally, two, there aredoubtless many things donc, and as many undone, which do not in themselves contributo to an increaso in our peace and happiness. Hut this also is tho lot of every nation ith moro or less dearec; and wisilo wo in Canada,
as units and as a nation aro subject to tho law which prescribes troubles, trials and temptations as part of tho lot of mankind, individually and mationally; wo cannot fail to recognizo with gratitude that tho leaven of peace, plenty and prosperity is in evidenco in our midst to an cxtent unsurpassed in any other country; that whito as units and as n nation tho necessary shadows occupy a place in our lives, no dark cload has settled or hovers over any pait of our fair Dorninion.

THE transferenco of Sir Oliver Mowat from tho hurly burly of the political arena in which he has been such a contspicuous figure for at least a gencration. to tho peace and comparative quiet of Govermnent House, is a step which wall meet with cordial approval from all classes 2 2mardless of political sympathlies. Wo may, many of us, differ trom Sir Oliver on a hundred and ono points of a party character; but for well on to a quarter of a ceatury his was tho hand shaping tho courso of tho dargest province in tho Dominion; and the fact remains that for that long period ho served the province as its first minister, and, making duo allowanco for the exigencies of political warfare as it exists to-day, there is no public act of Sir Oliver that even his eppouents will not ndinit was performed in tho sincero belief that ho was thereby best fulfilling tho trust confided to him.

Of the privato life of the present Lientenat Governor wo know enough to bo convinced that those aro fortunato who can count him among their personal friends, and the circlo of these is a largo one, comprising many who linvo been his unflinching antagonists in the political fish.
Howerer much retirement into strictly privato seclusion might benefit physically one who bas fought the hard political battle until nighon to foursenre years of age, wo cannot help feeling that the completo withdrawal into privato lifo of such a strong personality would be a loss to the country. In tho Lientenant Governorship wo havo a Hall-wayhouse. Hero wo hope wo may find Sir Oliver Sowat for tho next fivo years, and
at the end of that time, still hale and herrty; prepared to spend the evening of has loug atd useful hife in the still greater quict of Jomestic privacy, which wo are sure will bo tho desino of tho venerable statesman.

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Ir our farmers are to reap the full benefit of returning " lietuer times," thes must oxercisegreater fonesight than has been shown in too many puts of tho country during the past season, which has produced another illustration of tho fact that the reputation of tho Iankeo for "cuteness" is not withont foundation. Wo don't begrudge our neighbors their famo in this respect, or the lesgitimato spoils of keen business instinct, but wo most decidedly wisl: tlate further fame and spoils hiad not been obtained at the expense of our own conntrymen, as has been tho caso in tho excerdingly largo purchases of Canadian yearlings by American cattle buyers.

When what was practically a stabling offer of froin 3 to 3 \} cents a yound live Weight was made for yearlings of all descriptions, food, bad and indiferent, onr farmers, or a very largo mumber of them. rejoiced excecdingly. Standing offers of this kitud mean a yuick and ready mean 3 of converting stock into cash : no watclsint the market and dolging tho fluctuations to aroid a bif dmp and secure tho benefit of an upward tendency, tho bencfits of which are not always whet they seem, the expense of waiting. cte., taking a big slice of the extra profit.

This was the view taken by hundreds of firmers, and, consequently, Canadian yearlings by the thousand havo been shipired to tho United States. Bujers in Toronto and other centres scourct tho country to meet the demand from tho other side. Of course, this has brougl' a considerable amount of Tuitel Status money into Canada, and momeutarily bencfited tha Canadian farmer But the other side of tha question is the ono that reflects upon our astuteness, and will maso us pay a high raco of interest for this "temporary accommodation."
Tho unprecedentod deinand from the Onited States for Canalian yearlings had its origin in the fool condition of
tho pasturage this year in that country. Hut tho pasturage was equally good in Cannda. To obtatn the full benefit of their food pasturage, tho American ranch-owners and farmers put on all tho young stock they could, taking all that was offcred or oltainablo. Iooking only to the present, our holders of young stock met tho demand with well-nigh all they bite on liand, with the result that for tho tho being the country is almost depleted of yearlings; and of our good gasturago wo havo probably not reaped one-cighth of tho benefit possible, had wo kept our yearlings here instead of allowing them to bo pastured in the United Stites, whence we shall havo tho pleasure of repurchasing the:n rext year at the same rate per pound, but wath from 200 lbs . to 300 lbs . increaso in tho weight of each animal; an increaso obtained at absolutcly no additional expense to the American ranch-owner, who will pocket a clear profit of from soven to ten dollars on overy yearling tho Canadian farmer was good enough to let him have. Tho Canadian farmer can count himself just so much out of pocket for overy yearling he parted with.

TIIE castom of fitting up Atlantic Liners with cold storago rooms is increasing rapidly on the other side of the water. At Liverpool, where tholeading firms of manufacturers of refrigeration plant conduct their operations, it is tecoming alnost a common practice for a steamer to bo faken in hand uponarrival in port and lio sent outa week later with a portion of tic hold transformed into an insulated coll storage chamber, and a completo plant installed for maintaining whaterer decrec of temperaturo may bo required. This is ftll of significance for Canada. It is not only Old Country peoplo who aro only now realizing what Canada is capahle of. White it has long been tho custorn for our orators to speak of, and our journalists to writo about, "our boundless opportunities," wo havo for years very assiduously ignored many opportanities, which, properly used, would havo proved to our great advanthice When Mr. Garratt E. Frankland of Toronto demonstrated in most practical inauner, that England was a rcady
market for Canadian cattlo, alive. humbeds rushol into the business, and the shipping of cattle to the Old Country his been one of our prommentindustries for nearly two decades.

Unfortunately the idea that all success in shipping lay in cattio and other hivo stock, obtamed, and has retamed until recently. a strong hold upon tho minds of those who have reted as tho middlemen between the Canadan farmer and tho Finglish luyer. With tho present year's deplorable reconl of failure, livestock shipping will havo lost most of what remained of its old time fascination; and encroies hithento active in that direction will now bo engaged in a less exclusive field.

Of courso it is very comforting to think that when the excessive exprotation of ono line of products ceases to bo profitnlide, Canada's resources are so many that we can substituto for the product that has ceased to bo profitable, somo other or others for which the demand is great; but this running one horso till it drops, and then gutting another in tho shafts is bad policy and wrong in principle. This is practically what we did for nearly twenty years in letting our efforts le, comparatively spenking, monopolized by the exportation of live stock, to tho exclusion of our fruits and dairy products.

Of courso there aro or wero difficultics in the way of shipping the latter, suchas lack of proper accommodation to ensuro their arrival in saleablo comlition; but how quickly those diffculties cant bo surmounted when tho neecssity arises is evidenced torday in the action of tho owners of the Atlantic steamers in fitting up their boats with cold storage rooms. This means that from Montreal or Malifax to Liveriool, Manchester, Loddon or other English jorts amd distributing centres, Camadian fruit or other perishable produce can be stored in a uniform temperature of whatever degreo is necessary for its preservation in perlectly good condition.
This is only half the battle. The other -tho keeping of the fruit or other produco in perfectly good condition from tho gaiden or field to the steamer-is ours. Cold storago to-day does uot mean
getting the coldest atmosphere possiblo by tho pracking of ico in tho neughorhoord of tho articles stored. By that means no real control of tho temperaturo is possible, and ono of the first lessons for growers and others to learn is that different articles such as butter, fruit, dead meat. all requro a different temperaturo to enswo ther profer perservatom. While seo houses havo served and Always will servo, a useful rupose in their way, they can play bat little part in tho system of cold storage, in which wo havo not the slighten, fesitation in saying much of Canara's fature prosperity is wrapped up.

What good sleighing is to the farmer in disprosiag of his crops locally, cold storage is to him in the disposal of his produco to tho consumer across tho Atlantic.

It will not be possible for each farmer to hiave a cold storage establishment on his farm ; except in the case of a few unusually extensive firms, the cost would prohilit this, but, looking at tho question carcfully in all its bearings, and realizing as we do the part it is yet destined to play in advancing our mational prosperity, we feel suro that the timo is not far distant when not only cvery city and town, but every township, will deal with cold storago as it does with tho markets, road making, strect lighting, water supply, and other kindred questions: mako the provision of it a part of the municipal work, so that within a fow hours of the fruit being gathered or the butter made, tho farmer can placo it in the samo eremperature in which it will bo kept until it is handel over to the Old Comatry retailer, two, threc, four or moro weeks Jater.

As incident, illustrating tho possibilities that lie before tho Canadian Iruit growers, came mader our personal notico recently, when a gentleman from Englard expressed a desiro to purchasosome gropes to send to tho lady at whoso houso ho was visiting inToronto. He had that day tasted Canadian grapes for tho first time, and was very culogistic of their flavor.
"How do you buy grapes here?" ho askel; "by the pound?"
"Oh, you had better buy a basket," wo sugesterd.
"A basket! Thero must be seven or eight pounds in one of those baskets. A sinall family would not eat those before thay went bad."
We assured our friend that tho biggest basket of grapes on tho marhet was not too big foe tho smallest family in t'oronto
"Fou must bo very extravagant people here. What is a basket worth?"
"Twenty or twenty-fivo cents."
"Twenty cents! Theto are grapes in that basket that would sell in Englaud for four or five shllings, at the least."
Wo told our astonished visitor that wo wero awaro of that, also that we wero not in England.
"But why on carth don't your funit growers ship to Eugiand?"
And wo cchocd "Why?"
Tho gentleman in question, however. Was so much impressed that he dit not leave thu matter there.
$H_{0}$ is tho director of a large Lomion tea company, having accounts wath four thousand retal grocers in different parts of Great Britain.

The idea of testing the possibulities of an import trado $m$ Canadian grapes through his already establishied connection with four thousand retail houses at onco suggested itself. Beforo ho left Canala he opened negotiations with a view to making tho experimentnext year.

Tur: tubereulin test is a suliject of which wo have heard a great deal of hate. That wo in Canada aro not the only pcople avaiting more positive proof, o:no way or the other, will bo evident from the following extract fiom the igriculfurnh Adeertiser, jublished in South Africa.
We publish the report in good faith, nad not with an evil desire to utterly destroy the peace of mind of our randers:

[^0]dred and fivo animals wero inoculated a second time, of which 50 , or 213 per cent., gavo a positive, and dic, or 29 por cent., a doubtful sesule. of the doubtful reactmg anmals. 29 were siaughtered and eximined. Otte-hall were tuberculous, tho other half fice fiom tuberculosis. in 670 animals slayghtered in whel: reaction had veen undoubtedly positivo or negative, 91 , or 13 per cent., showed diagnosis as result of mjection as inconclusive of 175 catele which hast not reacted, 20, or 113 per cent., proved to be tuberculous, nad of 501 which had reactell, 71 , or 1.1 , per cent., were freo from tubetculosis."

True decice of the Postmaster-Gencral that after Jamury list letters fiom Canada will bo carried to any part of tho British empire nt the rate of threo cents pre ounce, is one that cannot fail to commend itself on both sides of the Atlantic. It was a masterly movo to make tho amouncement of this welcomo departure on the evo of an clection as important as that wigung at tho hour of writing in Centre Toronto.
There is nodoubt that not a few of the votes the liberal candidato receives will bo cast not for tho cause of liberalism generally, but as a token of appreciation of the Government's action in strengthening still further our chain of empire by the addition of the three cents ounce link.

Pleased as we are with the change, wo wish it had been mado still more cm phatic and significant to our forcign - Friends" across the line. Insomnch as the object of a cheaper rate is, wa believe, to make possiblo moro frequent communication between correspondents in Englanil and Canadn, that end wonld pmbably havo been as easily attainable if the weight limit for tho lowest rato had been left at half an ounce. By fixing the rato for the half ounen at two cents, wo shonid havo accomplished something definite in the way of preferential treatment of tho empire. Doubtlesis this will follow beforo very long; in fact, we deem it highly probablo that Comada's action will result at no vers distant dato in that longed-for boon-a penny postage between all parts of the Eupure.

## MARCHING IN THE RIGHT DIRECTION.

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(®)Uill constant advocacy of tho science of famimy formint a pat of the regular studies of our "commg men" is well known to all our readers, and it is with very great pleasum that we notice tho progress that is being mado by the Eiducational Deputment in this ditection.

The teachers in the pubhe schools ane fast being mado anna that the te:aclang of agreculture wall soon take a foremust phace in the curriculum of therr class work. We append the syllabus of the course in agriculturo in the Normal Schools of Ontario, and wo not sute all will admit that it is sumerently comprehensive:
(1) Tho Plant-Refations of manetal, vegctabto and anmand hamsdoms to enh other; constituents of phants, 2 elithe proprortions of combustablo and membustible mater m phants and in diferent pasts of the same plant; mature and sources of plant food; functions ol roots; functions of leaves; germination; phat development. Proxmato comprosition of some of the most important crops grownin Ontuio.
(2) The Soil-Proximate composition amid classificition of soils. chemital constituents. physical poperties, and comparative fertility of the primenpal varietes of soil; functions of each ingredent in a fer tilo soil; activo and doamant consthtuents of sonl, and the best means of converting the thtter moto the former ; power of different soits to hold moisture, manure, etc. ; causes of unproductiveness, influcnce of rest, frost, aspect, cles:ition, cte., on the protuctueness of sul.
(9) Drainago and Tillage-Importanco of having lame properly drainal ; mdteations of tho need of inder-dramme; ithurious effects of stagnant water in soit; practical advanten pes which result foom under-drainug, objects nud effects of tillage; need of thorongh tillage; ploughing, harrowing, rolling and cultivating; deep and shallow ploughang; fall and spring ploughung; fallowme; benefits which result from stirrmg soil; nitrification, cte.
(4) Manures and Sceds-Production,
management and npplication of farmjoud manmu; conditions wheh affect th quality ; grecn-ctop manuing; notes on the most valuablo nitagenons, phosphatic, potash and lime mantures; mipontuces of using clean and puo seed; effect of nge on seed; necemsty of chanso of seed; quantity of seed per acro; methods and depth of sowing, etc.
(5) Rotation of Ciops-Crops which each kind of soil is best adnpted to produce; succession or sotation of crops; pancuples tudealymg rotation; examanation and criticism of different systems of rotation; smut, rust, ctc.; mige, Hesisian tly, wineworm, ctc.
(6) Live Stock-Points of beef cattle :und dairy cows, with diagrams. Breeds of beel c.ttto, with diagrams and des-ctiptions-Shorthorns, Hesefords, Aber-deen-hagus, Galloways and Devons. $1 h_{1}$ ceds of diniry cattle, with dingrams and desci iptions - Ayreshires, Jeaseys, Holsteins. Camadians and Shorthorn grates. Breeds of sheep, with diagrams and descriptions-Leicesters, Cotswolds, Lincolns, South Downs, Shopshire Downs, Oxford Downs, Hampshire Downs, Merinos. Importance of selection in breeding.
(7) Food and Feeding-Composition mud properties of some of the most inportant foods and fodders grown in Onkarto; mutrogenous nad non-nitrogenous ingrelients in fooll ; proportions in wheh to combine theso for different objects; importanco of a mixture of fools; points to to observed in order to get the full valuo of food; shelter and warmth ns necans of economizing food; nood and bad systems of fecling.
(8) Dairy Products-Most important pontits to he observed in the production and laadling of milk; treatment of cream; churning; working, salting and packing of butter, etc.
(9) Forestry - Planting anil caro of trees iou shate, shelur and olnament, tanctues best sablel for different purposes.
(10) Tho Beautifying of Country Homes - Site, laying out of honse, lawn, ornumental trees, cte.; hunts as to tho best way of making comfortablo and checrful homes wath as littlo labor and car-anse as possible.

# AN ECHO OF THE BRITISH ASSOCIATION'S SOJOURN IN TORONTO. 

A GREAT LONDON " DAILY" tells OF A VISIT TO CANADA's LEADING MANUFACTURY.

## AN OLD WORLD TRIBUTE TO CANADIAN ENTERPRISE.

WE took occasion in a recent issue to refer to the publicity that would be accorded Canada in the Old Country, and the benefits, direct and indirect, that would accrue therefrom, as a result of the annual meeting of the British Association being held in Toronto. Our observation has been verified in a manner that we certainly did not expect, but which is eminently satisfactory. Among the places of interest visited by the members of the British Association was the MasseyHarris Works. The visitors included a member of the staff of one of the few really great journals of the world; the London Daily News. The conservative character of English journals and the value of space in the big London "dailies" are proverbial; condensation to the narrowest limit is practised, even in regard to events of a very topical character. In view of this we consider the attention devoted by the Daily News to its representative's visit to the MasseyHarris establishment as strong evidence of the keen interest that is being taken in the Old Country in the detail of the industrial and commercial life of Canada.

The London Daily News says:
"Many of the members of section G. have paid a visit to the works of the Massey-Harris Company to see for themselves the equipments by which are produced the agricultural implements which are exported to all quarters of the world. It is certainly a remarkable establishment, and one was curious to see the place from which certain implements are sent even to Great Britain. The Majestic on her last voyage, for example, took over twelve railway car loads of harvesters and binders for Scotland. I saw goods ready for Australia, France, and Germany. The works cover about ten acres of ground, on the Ontario shore, and with sidings in direct communication with the Canadian Pacific and Grand Trunk Railways. About 1,200 hands are employed, and there are 800 more in branch establishments. The specialities are harvesters, binders and mowers, and the season for them, so far as the works are concerned, is past. Now comes
the fall trade with drills, cultivators, ensilage cutters, straw cutters and root pulpers. Ensilage is an article of firm faith with the Canadian farmers, and they declare it better than anything else as winter feed for milking stock. The native woods are invaluable for this branch of manufacture; the white ash and hickory are unequalled, and rock elm is also a fine wood. The works are a marvellous study in labour-saving machinery; it really looks as if it was the machines that were human, and the men that were machines. The steam-driven tools pick up bars and rods of iron, bend them, and shape them as if they were bits of tin. They cannot here however, do without our good Sheffield steel for their tools, though much metal comes from Nova Scotia and Pittsburg. An enormous amount of grinding is done to produce the teeth and knives by which the wheat at this momentis being reaped in bountiful harvest from the graingrowing parts of Canada.
"I was shown a number of giant grindstones, each 6 ft . in diameter, and a foot thick, and this trifle of two tons is whisked into its place by a speciallydevised crane. A man in full work wears out one of these stones in three days; 600 were so worn out last year in the works. The 'lumber' room was fragrant with the smell of clean wood in the turner's hand; spokes and rims are rattled off by the tens of thousands. The hickory for spokes is split and never sawn; in this way perfectly grained wood is insured. The paint shop again was a curious illustration of the new methods; the honest old paint brush is not wanted here; a wheel bar or pole is simply put into a tank of paint, red. blue or yellow, as the case may be, and the brush is only used for the ornamental striping. The firm once published the "Massey Magazine"; now to the agricultural machinery has been added the Massey-Harris wheel, a bicycle pattern of which 6,000 were made last year. The warehouse floor was heaped with a consignment for Sydney by the next ship.
"Daniel Massey, the founder of the firm, was a comparatively poor man when he set up his little weather-bound shanty in 1847 in the Ontario town of Newcastle. The Company now turns over four million dollars per annum, but it is scarcely necessary to add that the shares are kept snugly in the hands of the Massey and Harris families."






## A DISASTROUS FIRE.

T"
IIIE largest firo in tho history of $\mathrm{B}_{1}$ antfort, Ont., was tho burning of tho Veraty Plow Company's works on the eveming and night of Oct. $26 t h$, last. Tho citizens of Irantford will not soon forget the big fight that had to be put up against fire that night, and how their noblo firo department fouglit tho flames so comageously for
hours together-an accilent to two of their number not deterring the others foon sticking to their posts.
Tho kindness and valuable assistance rendered by the peoplo of Brantford was highly appreciated by the Verity Company, and, as an expression of their satisfaction of the effor ts of the firemen, a check for \$100 was sent to tho department the next day ley the directors of the Company.



Verity Plows ated Scullers have already achioved such a world-wide repttation that the works wero taxed to their utinost citpacity. For months theso busy shops had been ruming twenty four hours a hay, gising employment to two scts of wen. From basement to roof evely 100 m of the large promises was fu!l of matenials antilgoorls in process of manufactare, :and finished ready for shament; tho warchouso at the time of tho fite berige lill of Plows and Seuflers seady to bo loated for Australia and New Zcaland.

The loss was thetefore a heavy one, aggregating upwatels of $\$ 30,050$.
But this firo only serves to illustrato what modern enternuso can do. Tho Verity works may hurn down, but the Verity business must go on. Searcely had the firemen's hose ceased to play on the smoking cinkers ere the long-dis. tance telephono was mado to do duty. and telegraph messages, too, wero sent hithet and thatim, purchasing a fuht line of the newest aud best machnery
and tools, also fresh supplics of raw material.
This now machinery was crected in tho largo buildiugs not long sinco vacated ly the Bain Wagon Compans. Limited, on account of their removal to moro commodions pemises at Woodstock.
In these nowly equipped premises Verity Plows wero again being turned out in three weeks' time from the day of the fire-a marvellous achievement.
The preater part of the old Verity woiks was entirely destroyed, though, fortmately, the splendid new steel ${ }_{2}$ ).ant and its contents, together with tho valuablo appliances for the manipmation of high grado steels, were saved, also tho foumiry and oflices.

Tho steel and foundry departments are now rmming as usual, and, with the facilitics afforded in tho nowly fitted works, tho Verity Company is chabled to turn out goods with even greater despatch than formerly and of the very highest class.




CDITEO AND SELECTEO BY MRS. JOHN HOLMES.
Correymnilence is intilet on oll mattert pertuining tolac llome: 'duentium relatiny to any frature of domestre life or of interett 10 tommen ginerully, tcill be reutity ansuredel, when possille, in thes ifegarterent.

## It Pays.

It pavs to wear a amillug faro Aug laushaur trunthot duws. Firr all our littio trlide walt thut latishter or our frown.
 our sloblts will mito away,
 thencath thu emany ray.

It pass to inake a worthy cause. 13y liclpitig it, our onvi:
Toifive dio curritit of wur lives A true abl nolite tonc.
It juss to compint linavy hiearts, Dijureard willidndidiajnitr
Amtese la surmu darhencolliocs: A zicam of brffitites thicrc.
 To eager, earuest youth,
Tu bitt whth all their whwardices. Their collrige anit thelr trath;
Tustrive withsomgatha atill luso Therit molifence to wis
It faystu open stislo thic heste dint '* let :lre sunshluc lin."

## Some Useful Netdle Cases.

RIERE aro two pretty necdlo cases. They aro designed for utility. but may also bo as ornamental ns one chooses. Tho cascs are shown open and closed. To make: Cut a stip of velvet, celluloid, or chamois' skin. eight melies lonif ty three melnes wido; line with a strip of red satin. In one

end fasten a tiny silken bag for thimble, etc.; m the centse fasten a spool of silk by rumning through it a ribbon which is tied on the outsido of the case in a bow: The other end of the caso is furnished with anedede look made of flannctleayes. having the लlges scallopexi and worked in buttonhole stith with somo pretty coloned etching silk; riboon is sewn on each side to fasten with. The ornamen-
tations on outside of the caso may be any design to suit tho lancy, but for sinall articles of this natua the pattern will look best worked out in natural shades in Kensington stitel. The second enso is soinowhat similar to the ono just described, but folding differently. Cut a piece of ooze leather or oul silk about threo and one-half anches wido by six

inches long; this will form the outside cover. For the usude lining, stitch scraps of chamos's shin or velvet in tho form ot pockets as indicated in the illustration. fetter each pocket in outlins stitch with ctelimg silk. Tho leaves for the needles should be made of fine white tlannel but-

tonholed with blue or pink silk around the edges. The caso should bo neatly bound, and supplied wath two ribbons to fisten with. This as a pretty little needlo caso and can casily bo made, and 18 at the same timo inexpensivo.

## HOME MADE UNDERCLOTHING FOR THE LITTLE ONES.

Wo hear and read a great deal now-2-days about smart underclothing for grown folks but people aro far too apt to think that "anything will do for tho children's underclothes," and wo eateh sight of plam calico edged with cvei lasting trimming, and get plimpses of petticoats that nover killow form or beauty. Nothing really contributes so much to tho general effective turnout of our littlo

peiticont and stavs.
ones as glimpses of snowy frills, neat stockings irreproachably "suspended," and smart littlo flounced petticoats helping to keep tho olidest fiock fiom falling hopelessly limp round the littlo legs. With a littlo ingenuity, remnants of serge, moreen. or silk, which ato not enough to be of any uso in tho matter of knickerbockers or petticoats for ourselves, will often suftice for the renessug or renovating of the children's smaller garments.
To begin at the beginning, let us turn our attention to vests For real economy, never buy a woven or machine-knitted vest. It takes such a short time to knit a vest that there can be no difficulty in supplying hand-knitted ones, and they outwear anything woven by machunc.


HAND KNITTED YEST AND CHMES'S CHEMISE.
Use soft wool, such as "bechive" or "Lady Betty," and uso medrum-sized bono needles; knit loosely in a large rib. and make them long enough to como down to tho child's hips. Always wash carefully at home, and bo on the lookout for thin places for immediato darning.

Wo next came to the chemise. Combinations nie not, as a rute, satisfactory for chuldren's wear; rs, with short skirts, the drawors getsoiled and require clanging ofence than tho chemiso-and hero let me say that as long as short skirts aro woin. two, if not three, pairs of drawers should bo allowed weekly.

One of the most convenient shapes for a child's chemise is that fastening on the shoulder, and our illustration shows a simple littlo trimmed yoke. which may bo quito plain belind, the chemiso being slightly fulled into it. This makes yoked dresses set nicely without too much fullaess under them. For a chemiso 26 ins. in length, one-and-a-hali Yardsof longelothat, 8 y, 12 cts . per yard, is sufficient, and threo yards of torchon edging or craluroidery: Tho cost of each chernise, if made at homo, need not exceed 30 or 10 cents.

Many mothers like their chisdren to wear flannel or flannelette drawers, but as theso are penarallv unsightly, and the rough surface so soon gets soild, let me


HLINXEI. DRAWERS AND LONGCLOTH AND TWFED NNICKERS.
bef of you to havo them mado plain and worn under cotton drawers. Of course, both shoutd ba made to button on to the clutd's stays, but tho wear and tear to tho tlannel drawers is much less if made wide, loose, and short.
Longeloth knickerbockers are very easily mado, and should bo made with a tuck rather high in the leg to allow for letting down; thoy should only just reach tho kneo, and the fullness should be orenly gathered into a smart littlo featherstitched band edged with embroidery or simple frilling. For very best wear tho band may bo of insertion, edged with torchon lace, but this will not stand very hard wear.

For walks orgames it is a great comfort to a child to havo a pair of knicker horkers made of tweed or sergo to match thn cuervday dress, so that all petticoats may be disearded. These should bo put into a derp-shaped band at the waist, and buttoned at the sides.

I hope it is not necessary to insist most stiongly on chilitren wearing stoching－ suspermers．C：uO mast be tatien to have tho elastic tho bight length to keep the swakiag frev from any winkles with－ out the stram being no givat as to＂11to buttons or stining to part coms，ans． The simplest and cheaprit ats well is most darathe suspender is a broal tira elastic，sewn or buttoned to tho stays， and supphed wath strmbs to the on to loogsattached whestonhurs．Alulls provide stockimes with loops at cither side．or the wrong storking is pitt on and twistal round in an unganly way to mathe loop and strama inect．
As to pelticoats，I am ofd－fashioned enough to prefer a flamel petticoat coverel by a longeloth or morect one， but，as I said before，for games．etc．，ono has to sacrifice appearances to comlort， and substituto twert kutchers．

The fiannel petticoats should not bo too thick，anit patherel（not pleated）into a derp land buttoniuz on to the stays．It may le finislied by a deep heme or a woikel scallop，or an ciging of＂yak＂ lace．
The upper petticoat should be made of moreen，which can bo purchased in any color，aud，cifmed with a mathered bias frill of the same as thes，makes the dress stand out well．This petticoat，being mado of vers durahle material，should hise a tuck or two to let downa．It shouhd bo pored and plentest at the bach， putting it into a dery shepeod hasul to butwn on to the loustoth peticont bodice．
Some people like tho petticoals made with hodices，but it always seems to tho smpler to lave a ilaninel or longeloth boilico with buttons to button tho pretti－ coats to．This makes the changing of a petticont a very simplu matter．
The longeloth petticoats should bo rather full and gathered into a similar band． For orlinary wear，a simple threerinch clains of embroidery looks amm washes well，but for smarter occasions tho petti－ coat may to made of nainsook，eleserl With frills bordered with Torchon or Valenciennes lace．
Thonzh，perhapis．some of thisse far－ ments may seent neollessly claborate． they ean be made very casily at home， and chatdren are often delightited to bedp in tie simpler parts，thus cultivatuts an interest m，and attachug an mportance to，under elothang．whel，is，alas，anong our Canadiar．girls，too mare．

For Sprains apply toths wruaz ont of rery hot water until thin minammation has sulsided．For black and bluo spots an ounce of muriate of ammonia to a pint of lukewarm water makes a pood application to bo kepit on constints．

## A Talk with Mothers．



！THINに it will bo maiversally con－ ceded that on！ 5 in exceptional cascs should conjoral punishment bo ro－ sorted to and nover in the presenco of others．A sensitivo chald feels keenly the disgrite of being reproved beforo others，and from sheer mortifieation and chagran would a．oturally resent tho rebuke，and many times would beguitey of rudeness that in his calmer moments would never heve been commited． ＂Provoke not your chaldren to anger＂ has a bearme liere．

We shoutil always be considernto of tho chidiren，for the＇s aro miniatures of ourselves，with the sume impulses and characeristics，tender ant mbasisenl by contact with tho world．Soncthing should we allowed for mere animal spirits，but if a clatd is graity of a mis－ deme：nor too serious to ba lightly passed over，ho can be bumished to solitude for a little．I do mot mean shat up．for that is a terror to a nervous child，and productivo of much harm； but he can bo made to undersiznd that in lus present condition lus presenco will not be tolerated．Reflection wall do much wwatys restormis lan to has better self．Then if ho is approachied faretly tuid in a right inatumer，to lastimg inyressiou can bo made，aud a bond of ss ingathy entablashed botween tho parent and child that punishments aro power less to bring about Firmates，tact， patience and lovo will usually solvo tho disciphino problem and win tho child＇s fespect for the thrent，and will deepen las love untal it wilt becom？a potent jower for zood in years to cotue．

It is said that Helen Keller，being askim to clefine love，cxplaine⿻一⿻一㇉丶1灬 it as the feeling every ono has for every one else． It is ono of tho compensainons for tho sulent viewles worlit in whish the blind girl lives，that it inclates love nud kinthess only．Sho lias no knowletgo of vuss，hatred，malice，and all unchari－ tablencs，consopuently sho has never experiencril thesin feclings．It is notico－ able that thin chalifen ina good－teropered householh，where family jars aro rare， smin natarally even－tempered and ami－ able as arule：They are notaccustomed to quarreling，and it does not come natumally to them．If tho parents aro not only peaceful．but sunny－tempered too，ever disposed to smo tho bricht side． or，if that fail，to polish up thodark one the children maho fun of their mishaps， and tako lifo easily．It is tho parents who set tho maces Aro youmaking your home atmosphere a paceful ono？

## CHASAKt: TIII: FOHD.

Does goun buthy thrse on the foor? yoll ato funtrit sometiane a baby's fook is theoretically the berst poosible. and yet is too vieh for its stwmach, while a tess "whole" food will agree" with it math better. A physichan. for instance, reommended al ull huown nutants' feod for a neighior's baby. It crew constantly frailer, but no ono thought of the food hurtimg it, for hadn't it been amalyzerd and fund to beperfect? Another physician was consultal, whin recommenided trymin a different food and seeme if , apreerl with the chilid. Thus was done. amp now the baly is brizht nniltanalthy. A mother of thececthtitiven was obliged to wes a different fool for each one, as what arreed with one dad not with the othets.

Have you ever visital a home where the children's tols were strewn from "farret to cellas," whete often the Fother has to clear out a chatr befor tho visitor can bo seated? Sumply thes is wrong, While we all wamt the chilimen to enjoy themselves, there as a limit to this wholenale hitter. Wo eannot all have playrooms or aurserics, vet we can sent aside a closet or several drawers for the little folls and when they are not playing with theer toys, msist uponthem weing jept thervin. It is an excrillent idea wo keep sumo of therr play thmes out of sight for a few days, then bringe thrm out and put others away. They will seem newer to the child and he will appreciate them more, agath, they will last mach longer. Latite folks should to taught to pint away their things at night; don't wat until the last moment, when they are tired and fretfill, but have thenido it carly.

## the swertinas of ahlinoob.

Girlhood and sonng womanhood are such pure and sweet and beautiful things when they are what God intended them to bec. that it fills ono with unspeakable rearet to seo a jouthe errl's life falling short of its niprointed beanty. And evers soune girl's life falls short of this beauty if it lacks in modesty, in dipnity, in purits of spech, in gentleness and kindliness. The bold girl of pronouncel dress and specch. the girl who sets at naught the opmions of nthers the airl who is nossy and who serks to be "dasting, tho girl whose parents sormowfully admit that she is "bevond thein"-this girl is treading on dangerous Erouma and her jilo is falling far short of tho appointed beauty and swectness of girlbood.

## Simple Recipes for Tasty Dlshes.

A Sunday Pudding.-Two cercs, theiv weight in butter, flour and sugar. beat the butter and sugar to a cl cam, add tho cachs, and lastly, tho flour, wheh has had half a teasjoontal of baking powder mixed in it butter a shallow piedish. spread with a lajer of stewed tins, ent minely, pour the bater maturv over, and bake for halt an hour.
Escalloped Eggs.-Someanchovy, aspris of warsley, a slice of onion, several crats. two ounces of bread cruabs. Chon tho anclovy with the parsley and onion, mix with tho bread crumbs, and put tho mixture into a flat dish; break a suffieient number of eges to fill tho dishi, cover the bnead crumbs, season and bako for ten minutes. Serve very hot.
Egg and Bacon Pie.-Puta layer of short pasie on a soup plate, put small pieces of hain or bacon previously cooked on the piste, beat ono or more efges according to the pie, season with proper, pear it over the bricon, and then put a cover of slort paste on the top.

Cheese Tartlels.- I'ut the yolks of two cans, two ounces of grated clicesc. and satt, into $a$ half pint of white sinuce and mix all tozether. Whap the whtes of the efrs to a stiff froth, and stir them also in very liphtly. Liue patty-pans with puff paste, fill with tho cheeso mixture : and bake for thenty mantes in a quick oven. Slut the oven door very carefully when bakiag them or they will not be light.
Fish Fritters.-The remains of auy boilel fish can be made iuto tisty cakes or fritters as follows. - liemove all bones from the fish. and put it in a basm; beat it up with a fork, and mix with it a small guantity of grated bread-crumben $n$ litelo vers fiticly chopped onion and parsley, lrpiper, salt, and a couplo of well.beaten egs. Pus somo lardinto a frying.pan, amb, when quite boiling, drop the mixthre moto it in small cakes; fry them a hafit brown on both sidles They can bo caten hot or cold. Tinnel salmon, treatell in the same way, makes delicious Irituers; of rourse, tho liguor in the tin must be drainct off beloro using tho salmon. As half the contents of tho tin will make a good dish of fritters, tho other half can be utslised by pouring spuced vancgar over it, when it will seep good for some days-
Common Bread Cakes.-Tako tho quantity of a puartern loal from the dough whim mahing whito bread, and knead well into is swo ounces of butter, two of srlite sugar, and cught of currants. Warm the butter in a teacup of food milk. 1 ly the addition-of an ounco of butter, or sugar. or an CEE or two. you will mako the cako better. a tcateup of creatn inproves it much.

"I ture Giut and tittle childuren."-Jian l'at :

## When we go Fishing.

When wo fo filitage the thenek. Jexy atul Clely atat 1,
A srowhel bitis ont only hook That cateltra' cmit :amctionat we to The *erms tight to a wifun tmb, Just white the bigket anhmows awim

Then we Ile down there in the shacie. Athi wath cur lates that the and thoot ;
 Atud luft suraste atal a mbust.
 Il lay, Juck tues and matilisa ith.

Then all the frightenevl liell they hide tsemeath tibe rowh sud til the troul

The water setthes cleat han coul
With buhble 'twect tic ruehs and foam; But then we must take Jory fiume

Of ecurte the erles at manmuat towh stio suys. Is this the onity tish That wil can catch ha silice throwh a Slic kinws thutkh, we'd cet sll the il who, With just our atrlut and pall and jumIf Juet wouliditt tuntidu fis? - V'irginia lloodtraget clonet, in St. Niesotas. ***

## Datsy's Afternoon Tea.

DAISY didn't quite hnow what to do. Mamma had a lieadache, athl trantel to he down, and had just asked hor to amuso herself awhile, and hat given her a jeung to sjend at the grocery store.
Daisy thought for some time as to how she should "amuse herself." dt last sho snid, "I will give an afternoon tea."
Off Daisy trotted to tho grocery store, and with leer penay bought a moist, sticky lump, twisted un in brown japer ; and tho arocery man, who was a preat frient of Daisy's, when he heard of tho afternoon tea, gave her a handful of raisins besides.
Then sho went home; nul Della, tho cook, gave her a glass of milk with somo cookics, and a bizy yellow bamana.
Then Daisy took her own litele tolblo and rocking chair out in tho shade under the lige elin, and set tho tallo nicely with a whito cloth wheh sho had begeel of Della, and a benutiful bunch of flowers in the centre. Then she spread out her refreshmente, amd sat down to wait for the compang:

It was some time before any one came. Finally, Datisy sum what sho supposed was het own kitey Cluver; butit wasn't. It was a stathge fitty, so poor and thin, and so scuted and shy that it was a long tumo befuro Daisy could coax herncar to drink some milk; but, when she did drink, sho seemed to choy it so much that Daisy was clad her own fat kitty Clover hath t come to drak it up hesself.

Just as the hitty nas nearing the bottom of the plass, tho arrival of a new Luest sent her rumning up tho elin tree as fast as sho could fo. Tho new guest wis Prince, just homo from atamble, hot and humery; and ho finished the milk with two laps of his freat tongue. and then ato cookies till D.isy called him "agretylydon," andsaid heshouldn't have another one. So Princothought he "uuld take a nap under the trees.

Dinss waited a whlo longer, and was thinking sho shouldn't havo any more c.tlers, when she s.tw a weary couple wiming town the road-a man with a hatad urgan, and a tured, dusty little monkey.

Tho man asked Daisy for a drink, so she ran in to Della for more milk and unshue, hud while the man was enjoyugh lus lanch the monkey perclied on the edje of tho zable, and ato the big limana, pieco by piece, from Daisy's hands. 'flen the man played some tunes on tho hind-organ, and tho monkey dancel and did anuinber of pretty triclis. He then politely lifted his little red eap to Dais, and held out a tiny paw for her to sliake. Tho man lifted his cap. also, and they went off down the road.
It was almost nught now, so Daisy ato tho moist, sticky bump and tho raisins herself. Then slio ran in to tell mathma about her first afternoon tea, and how delizhted all her guest were. And mamma was as much pleasel as Daisy:

- Rabyland.


## Was it You?

There was somebedy who said an unhad word which hurt somebouly else. Was it you?
There was somebods who found nothing but faults in the belongiugs of his friend. Was it you?
There was someborly who borrowed a look and kept it for montis. Was it you?
There was someboly who never stoppel to thank who was hurt by the sar castic word. Was it yon?

There was somebody who day in and day out, nover did anything to make anybody clse happy. Was it you?

## The Old Kalser's Visit.

A pleasiat story is told of old Kaiser Withelm, who, at the the of elghty-five. paid a visit to a large orphan asylum and school at Eins. After listening with much interest to the recitation of several of tho classes, ho called to him a bright fiaxen-haired littlo girl of five or six years, and, liftiag her into his lap, said wher:
"Nom, my littlo franlein, let mo seo how well yon havo been taught. To what kingdom docs this belong?" and taking out of his pochet su orange, ho held it up to her.
Tho littlo girl looking up in his face, replied, "To tho vegetablo kiugdom."
"Very foud, my litto fosuleint and now to what kingdom does this io. long?" and ho drew out of his pocket a gold picco and placed it on top of the orange.
Thu littlo girl replicd, "'ro tho mineml hingdom."
"Better and better " ho said. "Now look at me, and say to what kingdom 1 bclong."
Tho littlogirl hes. itatellongias if ierplexed as to what answer she should give. Wras the Emperor an amimal?

Then sho looked upinto hisfaco with a frightened look, and, as if she was ovading the question. replied: "To the king iom of bearen."
Tho unexpectel answer brought tans to tho German Emperor's cyes.
"Xes, yes my litelo fraulein," said ho; "I trust $\}$ do belong to God's kingdom. And you thank it tamo $I$ was there, do you not? Woll the day is not very distint."

t.ITTILE 3tiss sttmesttil.


As you iflak life'sinfir tonk, sintlo across thu Culu
Sinalle upon tho troulled pilditus
Whoth you jass ard incel.
Frumis are thurns, and sinile aro inossoms, oft for nesty fot.
Ih mot mint thic way sce in tander Ity a sulfer face:
Sinilua ilttic, sumito a IIttic,

Smlte tron y'our undono indor ;
Sot fur onio who serteses
O'cr hile tash, waits wealiti or pliory:
He who sinltes as hileves.
Thutith vinimiet uith luse or murrow Intlic jussinj sicars.
Sryifoa fitic, strile alitte.
Fiventhrutiki : ourtears
**

Watching tor Faults.
" Wues I was a hoy," said an old man," I was very often idle, and uswe to play during lessons with other boys as sulo is myself. Ono day wo were fairiy caught by the master. 'boys, hosaid, 'youmnst not bo idle-you must attend closeiy to sour boohs. Tho first of you who sers another boy idlo will please como and tell me.,

Ah.' thought I to myscli, 'thero is Joo Simmons, that 1 don't like; I'll watch him, if I seo him look off his look I'll tell.'
"It was not long until I saw Joo look off his hook, and went up at onec to tell this master.
"Intrel.'said he, 'how del you know he was idle?"
". 'I saw him'' said I.
"'You dial? and wero your eyes on your book when you snw him?
"I was cauclit, and tho other bovs latehei, and I never watchod for idte bous azain."
If we watch over our own conduct. and try to kecp it ripht, and alrays do our own du:t. Tro will not haro timo to watel for faults or idleness in otbers.
The langest boy of his ago in tho world thrivers in Californin. Ilis namous John Bardin. Mo is 15 years old, $G$ ft 5 inches tall and weighs 220 pounds.



## HARKINS D,E.MRNT A LESSOS.

HakNins to one of thoee sernial sonle who blhe tu
 *it ilown lyakentlominty looklng olil inanin thic - Arevt car, flarkliti enhi-
$\because$ I'lesathitas, tan'tit?"
" \|fey?" reationicil tic old man with hit liamu (1) hifete.
"t indid that it tras a pleasant 山y."
Whtt Ray? ${ }^{\sim}$
"1 slmply salit thit it nas a jleasuit cloy:"
"ileaan sjutik a litici buưer; l'm a tritu liard o'tictrin'."


"Theseconfounderl trulleya unke ons numeli nulpe I con liantit tiear at alt. is you'll beso klish as to sjesk a litlle favilerm.
"tt'sin Ho conscyucuce," screvelied Harhbos.
" lles?
"Serlifinemothing at all, *|r : $^{m}$
"Winatiolt? What biniteaik por?"
*Olf, trothage much of ars thing:." lionient Har. kIns, whereu[on the olid bexitleman took a cousto of coplicration his joehet, 2nal, wferling them to Harhlis, sald-
"Welh, I don't often glic. an' It loohe to me as if a well alrestell, biesithy-ludi in manlike son onthit to be abuyo bexkin' Ens ytripo $10 u^{\prime}$ ve bires unfor tlutt, su' here's a coupic o'mace fur you कo
 whilio the jera aurl lion ling taughter of the otlice jassengrers sonadicil lit his turntris cart.
 talk *o mucli?"
"Cant you sece" replled tho boy; "shest pot a doublectila:"

Ht:sundi:-How do you like tise vier?

 better atas liere and bulld a housc.

Clara:-OHi have sou beanil about Cora ('yrsot? slic is Eolue to marry a pleli whower with alx chilitren. INoHA:- shic aluags wis 3 Ereedy ming.

## ANOTHEIK DICYCLE VICTIM.

Unuler a apreading chestant trec. The slliske tulthy ftatula; The sulth a lonely manfe lic With targe hurl iastices latud.
His iruto was koal in former ycars At sliocing liorecs' heela;
He ha* not framint, ts how appeare, To thend tho bruxern whictis

* You trteh to le rellexed from fury lut suu


 never agrece with anstariv. if $1 \times 0$ on this jurs
 liven to gn to the eafcisto of a new trial." ${ }^{-1}$ Fx. cused, "ratu ilio fudge.
"What illd con piop that clock in sont mom for, Jinet ${ }^{-1}$ itheranse, mom, the juaguety thag has mane mort of a fit cvery mornin inum, fest when I watuts tu sleeg"
d nolitical speaker accured a rival of "unfathomalife mernuesk" and then vising in the or casion. katd, It wani himm note in jeralat in lifo disgraceful cource or he'll find tiat (nvo of vo can lay at that game!"

Prisoxsk OvFResyn:-Fonsecm antloun to to better. It thero any thims I can do to Improve


As Ifthiman who was out of rork went ont toannl a vesel that was thatio hartion, and anked tho espisinf if tu muld them thtm work on tho shifu

* Wcll. ${ }^{*}$ ald the capialn. at the ammetlime handJof the Irlshman a pirce of rotece If you can hitl "hireu cuis to that roge you shall hav Ronnework."
The Irdaligian wot hold of one culd of the roles, anit, showing it to the capitaln, sald: "That's ont end, your honor." Titen ho tonk hokt of the ather cisd, amp, fiovelage it to the capitalisas imfore, sald, "Atid that's two ends your honor." Then. thining luvid of woth emits of thie ropie lie throw It overimest, saying. Hidud, faith, there 3 sit cnu to the rojex, your hozior !"
Hewas engaged.
"Tur clarge agalnst you, prienuer," nalth the morftrate," filliat you wiern caublit lin the act of jurlolninge talierdatices?*"
"It aln't $80^{\prime} y^{\prime} r$ lintior, an" the egh knows it.

*TuEitels no occasion for you to cnvy me**all
 as 304
*I stase or have mieter," almitited Dtental Duwen; $\cdots$ init the itiniculty with me is, tlat if atis't got ans thing die."

A CaNDutate at an election in Fingland was ktuwn to lic etronkiy lit fat or of Hoakthe In the irms: ito katy wo necestary dishraco attached to belus togerat.
"IThy:" paid lic." I was tiosged mo eeit once, and it was for telling the truth.
"And it curcel "e, naw duubt," extd a rusife in the mevting.
Iv bygone daje fit the Uukted Sintre an old Alate arkued that, ats his trody texleygat to she master, If lie ste tho master's cileketis, the chiskSis were ailli his, and notheft fintiticen commitiod. IIs master remonatrated wiht him for eating a chicheth, when the plavo teplicd:
"W゙elf, sali, you'se got lest chicken, lut you'se Kut thore ifensil!""
A Younas Ioutankt was shon ing a jarty of ladies niut arentlenten tirough the conseriatory, and Crilatulng tu thenithotertes of sume of the pholcest fibuts.

Among bite slaltors was a trould be younc look-
 valtuteered the staiement thit the jhatits and tlosters tho liad at liotuo trete quito equal to any. thing exhithted liefe, or, limied. any where. Just as they wrere tussligh gizit cat tus, slot was licerd to evelalm:
"Wicli, this is nothlngextraordingry. I havo a cactus af home that is sthl larger. I lignitiod and rearcit is myself,*
${ }^{*}$ Reared is tourtele $t^{*}$ the pratexsor sently olArrvet. "How remarhahitet This apmeltinen ta

Tho laily ild uot stay io hear ans more, tut exceuted a suratoite muvement to the rear.

## Massey-Harais Illustrateo

## An independent Hlustrated Sournal ol Nows and Literature for Rural Homes.

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four or moro hooks arranced on one side to hold tho soll firmly and to stretelh each section as it is unrolled．A pulley attached to the following post draws tho netting tightly past tho preceding post， when it is secured firmly with staples and the work advanced to the next post， A fence thus put up will look neat and will bo moro serviccable in retaining fowls，as－a bagging top wire invites sttempts at flight

## WANNTED 耳Eエ卫

 or hitmaucea new disenciy and kecp，our show cakin
 town and country．Steady emptoyment，Coramiston or FACAl｜Y ｜xulted lit an lank whristartal．For particulars with Tits．Womio Mevical．Eisetric Co．

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## TONS

of RAW MATERIALS were used in making the

## Perfected

## Roller and

 Ball Bearingequipments put into the Massey-Harris Farm Machinery sold for use in the harvest of 1897.

The Massey-Harris Perfected Roller Bearing Equipment has proven itself to be "perfected" in every sense of the word-it is not an experiment such as competitors are using.

The Rollers are the correct size, the correct length, and are put in just as experience has shown they must be to be "perfected."

## THOUSANDS UPON THOUSANDS

of these Roller Bearing equipments as illustrated were used by Massey-Harris Co., Limited, for 1897, and

## Hundreds of Thousands

of Perfected Rollers will go out on Massey-Harris Machines for 1898.



> Bell Farm, Indian Head, $$
\begin{array}{l}\text { N.W.T., Canada. } \\ \text { 4th September, } 1897 .\end{array}
$$

Messrs. Massey-Harris Co., Limited,
Winnipeg.
Gentlemen-Over two thousand acres of grain have been taken off this farm with your Binders this season without missing a sheaf, or a break-down occurring. No Binder cowld possibly run better; it was pleasing to see how smoothly everything worked throughout'. So light in draught and simple in construction, it is an easy matter for men and horses to work your machines. Many of the men had never before worked a Binder; in one case an Indian did duty. I mention this to show that any ordinary farm hand can run a Massey-Harris -Binder. There are several other Binders on the farm, but all are discarded in favor of the Massey-Harris.

Yours truly,

## FRANK SHEPHERD, mANAGER.

Late of Herefordshire, England.

## VALUABLE FARM FOR SALE.

On aecount of ill health, 1 offer my F.trm for sale, comprising

## One Handred and Nine Acres,

 being the East Half of Lot 2, in the 18th Concession, Township of Chatham, County of Kent.Soil, clay loam. Well fenced, woll watomed. three wells, thiaty-seven acles Fall What.

## Good Hoase,

storey, nud $a$ half, eleyen rooms, well finished. Out Kitehen and Cellay. Bann $35 \times 56$ feet. Stable, $20 \times 63$ fect. Hog. Hen, and Implement Houses. Close to Schiools, two Churches, balf mile to Post Onice, cleven miles to Chatham. eipht to Dresden, five to Wallachlung. anm fivototupuerville, on the Fito and Huron Railway, neat one of the fincst Fiour Mills in Ontatio. Good Minkets.

## Price - $\$ 6000$

Will give tho Fall Wheat in. Half down or les.

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l'itent "Seamless Tube" IIose for CONDUCTING and HYDRANT Use. ROCK DRILL, STEAM, OIL, FIRE, SUCTION HOSE, etc.
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 WEIGHING OVER 118 TONStuaned out of the MASSEY=HARRIS STEEL PLANT<br>FOR b.E OK V.hmoles stiles of<br>MASSEY-HARRIS MOWERS AND BINDERS<br>FOR THE HARVEST OF 1897.

ALI the Cutting Apparatus that is used by MASSEY-HARRIS COMPANY is made in their own Steel Plant in Toronto. The illustration on the right side of the page shows a MASSEY-HARRIS Knife Section in the rough just after the Hardening and Tempering Process, and before being Faced and Ground. Note the Temper Lines.

. The only Mechanical Method known for producing Soft Centre and Hard Edge Knife Sections of a positively uniform character is patented and controlled by MASSEY-HARRIS CO., Limited. Be sure the trade mark is on the Sections you buy.
is going on again as usual in spite of the disastrous fire that visited our works on October 26th, last.

Newly secured premises, which we have just equipped with the latest Machines and Tools (in addition to our former valuable Steel Plant and Foundry, which were saved), enable us to turn out VERITY PLOWS AND SCUFFLERS as expeditiously as ever.

New stocks of High Grade Raw Materials have been received, and with increased and better facilities for manufacture and inspection, our customers-may look for a very high class of goods.

We make all styles and kinds of Plows, from a OneHorse Holding Plow to a Four-Furrow Australasian Gang Plow.
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Yerity No. 15, One-Horse Plow.

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Mill which can be set up quickly and yet maintain perfect alignment of the track and saw ; and which has every necessary adjustment. Our new Portable Saw Mill will suit you.
It can be set up in a few hours, and is simpler and has fewer parts than other mills. The Bearings and Boxes are heary and woll made.

## SAWYER

Ont.,
Canada.

bring to light internal construction, and if your eyes could look as through these wonderfully searching Rays at a Brantford Mower. you would see the Roller Bearings as illustrated in the Picture.


If You want to cut your Grass and Clover quickly, smoothly, easily and satisfactorily-without annoyance from sticking, breaks, and delays, you will require a New No. 3 or Big B Brantford Mower, fitted with MASSES-HARRIS DERFECTED


[^0]:    "Tho results of tho tuberculin test in Bavaria aro quoted in tho Jelerinary liecord. According to Der Wocischrift fur Shierhechiunde, 5,100 tuberculin inoculations wero underthiten on 1,182 frarms. Tho first inoculation had a positive result in 1,009 animals. or 37.2 per cent. ; in 579 animals, or lit per cent., thẹ reṣult remained doubtful. Two hunt-

