DEVOTED TO THE INTERESTS OF THE HOME AND FAMILY

WILL SOON BE A SCIENCE.

HISTORY OF BALLOONING TOLD FROM ITS INFANCY.

Aeronautics Receiving Much Attention in the Last Years of the Century-Bu Little More than 100 Years since the Montgolfier Brothers Made the Initial Trip With a Hot Air Bag-The Latest Inventions in Europe Are Steered Against the Wind-Progress Expected.

It is only 111 years since the Montgolfier brothers sailed in the air a balloon filled with heated air, a crude affair at best; now the latest developments and investigations of Langley, Maxim, and Holland are becoming of this are not screws or paddlewheels, but well known to the public. But it is only dragon fly; and they are claimed to develop within a few years that any real progress a propelling force of twice the strength of has been made. June 5, 1783, Joseph screw of paddlewheels. Delprad's aerial Montgolfier, at Annonay, France, assisted velocipede seeks to bring the unaided musby his brother Stephen, sent up a balloon made of varnished paper. They are credited mechanical flight was spoken of in the clasand Icarus in Greek mythology. In the latter part of the fifteenth century the natural philosopher, Dante (not the poet) is said to have sailed several times over Lake Trasymene, in Italy, by means of a pair of wings, till in decending too rapidly he broke his leg; later still, a smith at Sable, France, was able to decend obliquely through the air by means of wings, but could not lift himself. There are also traditions of the airship of Laurent in 1709, that of the Portuguese, Guzman, of whom it is maintained that he invented an ari balloon with hydrogen gas, which burst at and flails.

THEY CARRIED PASSENGERS.

The first ascension with passengers was Jeffries was much feted by the municipal a net, the method of using ballast, etc. Gay-Lussac and Biot reached an elevation of 7,000 meters, or 21,000 feet. No further progress was made in the construction of balloons and the scientific development of aerial navigation for nearly a century.

The employment of balloons in warfare was found to be practicable during the siege of Paris in 1870, when Nadar and others established the balloon postal service. Gambetta himself did not hesitate to escape from Paris in this manner. In Tonquin, in the late French war, balloons were employed. The balloon rose to a height of 150 meters, or during battles to 250 meters, and from that height it was possible to inform the commanding officer as to the point where the projectiles fell, the strength of the enemy, etc., by raising the voice or by dropping written communications weighted with stones. It was also through this means that the Chinese were prevented from retiring from Bac-Ninh, and that place was

taken without firing a shot. The use of the balloon in the recent great military maneuvers in France has perfected the science greatly, as shown by M. Debureaux, an officer of engineers, in his report-In concluding his report he claims that if Napoleon at Waterloo and Bazaine at Saint Privat had had a balloon service at their disposal a different result might have been expected from both battles, and thereby the course of history would have been changed. M. Debureaux thinks that at a distance of three miles the balloon would be beyond the reach of artillery, and would command the ground for a distance of more than six miles; and even at night the country is sufficiently illuminated to be compar ed with a map. It is difficult, however, to distinguish the movements of troops in a wooded country, and there are other draw

NEW ERA COMING.

If the proposed balloon ventures succeed a new era will have been inaugurated in aerostatics. The greatest of these is the navigable balloon, based on the theory of Lieut. Clement de St. Marcq. It consists in sending an electric current to a motor placed in a casement, which is suspended by a balloon, thus operating a proceller situated in the anterior part of casement, the current to be conveyed to the motor by means of a pliable cable towed by has access to all the actuating levers. The total. anterior part is reserved for passengers, power. The speed of the balloon is esti-

The other venture in aereostatics-le chateau aerian-consists, as its name suggests, in having a castle suspended in midair by means of a balloon. This gigantic enterprise is not expected to be in operation until late in the summer. The basket, or "chateau," will hold 100 persons at a height of 1,300 feet; connection between the chateau and the ground is to be established by means of fast elevators between heavy cables. The balloon, the chateau, and the elevators are to be equipped with parachutes in case of accident. The moorings of this aerial monster will consist of forty steel cables, so arranged that the airship can be drawn to the ground in a very

Among the numerous inventions in the field may be briefly mentioned the aerial balloon of M. Champagnon. The propellers cular power of man into service for the working of the screw flight.

In France balloons have been made withwith being "the first that ever burst into in the year that can be steered against the that unknown sea." But in ancient times | wind when blowing twenty miles an hour, while in Germany a balloon has been produced which can be steered, which is used in sics, as, for instance, the fable of Dædalus | warfare solely, hence the manner of its construction is not made known.

ECHOES OF THE GREAT STRIKE. The Best Weapon of the Laboring Classes is the Ballot.

With the lingering echoes of the great and disastrous strike in the United States its folly and infutility is beginning to dawn upon its promoters and chief sufferers. Once more the unequal contest between that of the Jesuit priest, Lara, and finally of the army which was best supplied with capital and labor has been decided in favor the sinews of war. The great railroad strike, as did also the coal strike, has ended a great altitude, and came down about the rich. The reports of statisticians give in disaster to the poor and the triumph of twelve miles from Paris, where the super- the loss in the last strike alone at from stitious peasants destroyed it with hayforks \$90,000,000 to \$100,000,000, without including indirect loss in curtailing the summer traffic and delaying the delivery of manufactured seasonable goods. Of this nearly \$70,000,000 was lost by the workingmen What a fearful cost in misery and suffering undertaken by the marquis d'Arlande and this unequal struggle has entailed upon Pilatre de Rozier, coming down in twenty-five minutes at a distance of five miles from labor. The best and most effective weapon the starting point. Dr. John Jeffries, a graduate of Harvard, made in 1785 the first pendent wives and little ones. The best passage by balloon from England to France | weapon of the workingman, both for dewith the aeronaut Blanchard, paying him fence and offence is the ballot, and until over £700 for the cost of the trip. The trip organized labor goes as a solidified aggressive army into the arena of politics and occupied two hours only. A monument was strikes at the root of industrial oppression erecte' at the point of debarkation and Mr. there can be no amicable adjustment of labor disputes and legalized protection of council of the city of Guines, in France, and labor element assert its powers by obtaining its compte-having descended in the forest control of Parliament, and strikes will of Guines. Improvements were made soon cease because labor will be the power after in the safety valve, hanging the car in supreme in the framing of social and other legislation. A strike is a contest between weak, unarmed man, with a helpless family dragging at his waist, and a wellfed, well-armed opponent, clad in the armor of wealth, with starvation standing over to umpire the fight.

CHANGES IN THE U. S. TARIFF.

How the New United States Tariff Will Affect Canada-New and Old Duties.

Following is a list of the duties under the present McKinley law and the changes made by the Senate bill :

	McKinley	Senate
	Law.	Bill.
Horses		20 p.c
Cattle	\$10	20 p.c
Hogs	\$1.50	20 p.c.
Sheep	\$1.50	20 p.c.
Barley	25 per cent.	30 p.c.
Barley malt	35 per cent.	40 p.c.
Buck wheat	15 cents	20 p.c
Oats	,15 cents	20 p.c.
Oatmeal	.lc per lb.	15 p.c.
Wheat	25 cents	20 p.c
Flour	.25 per cent.	20 p.c.
Butter		20 p.c.
Beans	.40 cents bushel	5c 1b.
Hay		20 p.c.
Honey		20 p.c.
Peas	.20 cents bushel	20 p.c.
Potatoes	. le per lb.	20 p.c
Fish, smoked		15 p.c.
Plums		30 p.c.
Apples, green	.25c bushel	20 p.c
Apples, dried		20 p.c.
Meats, fresh		25 p.c
Poultry, live		20 p.c
Poultry, dressed		20 p.c
Wood pulp		10 p.c
Coal bituminous		40 p.c.
Lumber		Free
Wool		Free
Eggs		Free
Fish, fresh	. %c 1b.	Free
Bacon and hams	5c lb.	Free
Salt		Free
		1

The bicycling fashion has reached Rome and many of the Italian ladies may be seen flying about on their wheels.

The trade returns of Germany for the the balloon, and sliding along an elevated | first six months of the year, when compared aerial way by means of a trolley. The balloon is an elongated or cigar-shaped a decrease in exports of 96,000,000 marks, form. The central part of the casement is and an increase in imports of 151,000,000 the governing station, where the motorman | marks, 6 and 8 per cent. respectively of the

A peculiar incident happened recently itted up like a saloon steamer, and will accommodate twenty-five to thirty people. The posterior part is reserved for machinary. Here is located a motor of 145-horse the officers was firing at a target, 300 yards away, three blackbirds flew across mated at twenty-five miles an hour. The electric current is generated by two dyna- of the birds fell. Upon examination it was mos of 2,000-horse power each. The track found that the bullet had gone through the is to be laid from the house in the city to body of the bird, and, without de laid ion, the fair grounds, a distance of about a had buried itself in the centre of the target.



INDIA SILK GOWN



OUTING COSTUME.



MARIE ANTOINNETTE FICHU.

PURELY CANADIAN NEWS.

INTERESTING ITEMS ABOUT OUR OWN COUNTRY.

Gathered From Various Points From the Atlantic to the Pacific,

Clover is plentiful this year. Markdale has a lacrosse club.

Rodney requires a new cemetery. Wardsville wants a butcher shop.

Dog poisoners are at work in Rodney. Ingersoll maidens have the croquet craze. It cost \$292,250 to run Kingston last

Orillia's new market is approaching com

Railway laboring men are in demand at Pelec Island has now three Customs offi-

Owen Sound will probably have a bicycle

actory. Thompson's new mill at Teeswater is in peration

Flos Centre is said to have two boys for every girl.

A large wildcat was shot near Glencoe Walkerton now has a telephone line to

Bath houses are being put in the Asylum

Small-pox is said to have broken out at

Seventh Day Adventist meetings are being held at Darrell. James Angus, pioneer of West Nissouri, s dead, aged 82.

The Lucknow Sentinel advocates the deorning of all bulls.

100 to \$300 per day. The London pottery has resumed work

ster six weeks' idleness.

Wm. Abernethy, a pioneer of Lambton County, is dead, aged 73.

Mr. Whidden was this week ordained as Baptist minister at Morden. Kent County and Chatham have a lawsuit

about the payment of \$800 in fees. The Galt councillors and the school trusees are to play a game of football. The Bradford fire engineer gets \$25 a

year and his assistant \$2 for each fire. The Woodstock Electric Light Company's ssessment has been reduced to \$3,500.

Geo. S. Armstrong, the first white male shild born in Eramosa, is dead, aged 71. The losses by fire in Chatham during the ast twelve years amounted to \$167,169.

Mr. and Mrs. Melville Millar, of Orillia, elebrated their silver wedding last week. Mrs. Orange Clark, an old settler of Middlesex county, died at Nissouri, aged

The next British Methodist Episcopal Conference (colored) will be held in London It is said that the apple crop about Belle-

wille will be 25 per cent. better this year than last.

about 50 deaths.

cost being \$7,000. The barn and contents of Wm. Jones, townline of Brant and Elderslie, have been destroyed by lightning.

two feet long and weighing forty pounds Mass., has been called back to Africa to out of a mill pond the other day. The man Partridge, who stole a horse, rig and harness at Ballantrae, has been

sent to Kingston for four years. Mr. A. W. Martan, formerly conductor on the M. C. R., has been appointed conductor on the St. Catharines and Niagara

Central. Mr. Frank Restorick, of Watford, ship-ped 20 horses by the steamer Indiana for Glasgow last week. Average price at \$75

The first load of new wheat this season has been delivered at South Yarmouth, testing 70 pounds, 28 bushels to the acre,

50 cents a bushel. Ida Jane, the 17-year-old daughter of Mr. John Rusling, who lives near St. Thomas, has left her home, and her par-

ents are anxious to get some trace of her. Thirty-five men for ned themselves into a Montreal Union of the American Railway Union Thursday night. The union is said to be working quietly and secretly for the

Ald, Derby of Hamilton proposes to introduce a by-law authorizing the payment of salaries to aldermen at the rate of \$150 per year for ordinary members and \$300 for chairmen of committees.

One of the soldiers who was blown to pieces in Chicago in the recent explosion

one on a clutch pully to Herman Banker, Barrie, and on a buckle design, patented for 14 years, Geo. M. Aylesworth, Colling-

Miss Clara Lundy, of Newmarket, wor the first prize in the school competition, a silver watch, for the best essay on a subject chosen by the teachers. The subject was "The Province of Ontario."

The smallest bird now eaten in England is the wheatear, an exquisite little whitefleshed bird like a miniature patridge in flavour; the smallest quadruped that was once a dainty, but is only remembered in Roman tradition, is the dormouse. There are those who have tried the bat, and

PERSONAL PARAGRAPHS.

Interesting Items About Some of the Great Folks of the World.

Lord Salisbury turns the scales at 252 ounds in his boots. Mr. Gladstone, on the other hand, weighs less than 117 pounds. The reign of Victoria has seen the pro-

portion of English people who cannot write their names reduced from forty-one per cent. o seven per cent. The physician of the Duchess of York had a professional income of \$75,000, and now, having been made a Baronet for his recent services, it is said it will amount to plemented with details.

\$50,000 more. An Atchison judge has recently adjudged a Cabinet organ a nuisance, unless some one in the family learns to play it. One

hour's practice a day with a competent nstructor is p "mitted.

Boston's floating hospital has already given several hundred sick babies and their worn-out mothers a sniff of sea air this season, and is now making weekly trips with full passengers lists.

It is possible that Lord and Lady Terence Blackwood may be settled in Washington at some not very distant day, as my lord may be sent as attache to the British Em-

Gen. Lord Wolseley is greatly interested n the temperance movement, in the British army. He says that there has never been a time when there was so little drunken-

ness among the soldiers as now. Of the 12,700,000 familes in the United States, 11,000,000 or 85 per cent., separate houses, the other 1,700,000 evaporation of the moisture collecting on familes living in 500,000 dwellings, an the skin must not be sudden. A garment

The song recently composed by the Emperor of Germany—"Saug an Aegir," as it Stout shoes with heavy soles, while not is called in German—is to be published by so absolutely necessary to health in sum-

Lord Randolf Churchill's friends are much concerned about his condition. While at Bar Harbour he appeared one night in the office of the Malvern and sight in the pajamas, to remonstrate against the music or the regular dance of the week at that

Mlle. de Lamartine, the niece of the great author, has recently died in Paris at the age of 63. She was her uncle's comon and comfort during the last years of

A well-known English poet, desirous of getng the Laureateship, was bitterly complain-'How ought I to meet this conspiracy? te asked. "Join it," replied the friend. he asked.

All the children of the King of Denmark owes the great improvement which has recently taken place in his health to 'cycling. Some years ago he was very delicate, and was thought to have a weak heart and a nervous system out of gear, but the symptoms which gave uneasiness have disappeared. Inventor Edison, at a recent scientific

There are on an average 120 births in anatomy was distinctly outlined, and every Barrie annually, about 100 marriages and action of each organ was plainly seen. This the "Wizard" accomplished by making the A new Separate school and convent will fish swallow minute incandescent lamps, be erected at River Canard, the estimated and by invisible wire conducted the electric current. The fish apparently were not incommoded by their diet of electricity. Prince Besolow, a native African who for

the past few months has had quarters at the Some Orillia boys fished a mud turtle school for Christian workers, in Springfield, take the throne made vacant by the death of his father. The Prince will be accompanied by another African, Prince Massag uoi. He will go to England, where he wil visit Queen Victoria, and will afterward spend some time lecturing in Europe.

In a letter written from Floren liberal treatment his wife received from American publishers. They paid her \$100 apiece for her poems, and offered \$2,600 a year for an amount of labour which would cost his wife and himself but a single morning a week.

After being a mute for two years, the from a cut on her finger. While eating an apple two years ago the child dislocated one of her teeth, and the sight of the blood rendered her speechless. Physicians were unable to cure her strange malady, and the case excited considerable wonder. Recently, however, after cutting her finger, her power of speech seems to have returned, and she now talks as fluently as any child

of her age.

There is great rejoicing in the pretty little Lighland village of Braemar, where has been announced that the Duke of Fife has lent his house, Old Mar Lodge, to the Duke and Duchess of York, and was an old Port Hope man. His name was that as soon as possible her Royal Highness John Knox, although he enlisted under the name of Jeremiah Dunnivan. will go there to recruit. Mme. Albani has occupied the house for several seasons as Among the patents recently granted in the guest of the Duke, but owing to superthe United States to Canadian inventors is in the guest of the Duke, but owing to superthe the United States to Canadian inventors is in the guest of the Duke, but owing to superthe the digestion is a work while digestion is just beginpretty house on the outskirts of Braemar, which was last year occupied by Mrs. Henry White, wife of the Secretary of the American Embassy.

> So penetrating is water at high pressure that only special qualities of cast iron will be tight against it. In the early days of he hydraulic jack it was no uncomm thing to see water issuing like a fine needle through the metal, and the water needle readily as a steel one.

A fad with society girls in New York who are rich enough, is collecting unset jewels. They are intended not to be worn, simply to be admired in their cases. found it tastes like a house mouse, only Needless to say, there is little danger of which have penetrated into the covering of that fad becoming ever too common.

HEALTH.

Healthful Summer Dress.

Hygienists, as well as modistes, have given instructions for summer dressing, and where the two conflict, sensible peeple

will hardly be in doubt which to follow. Clothing for hot we mer and for vacation should be selected with a view, not so much to style, as to comfort and health. The advice would be trite were it not aup-

the first place, then, summer dress should be loose and roomy. Be it said to the credit of girls, it is not alone a desire to be stylish, but an increasing realization of what is healthful, that induces them, as well as their brothers, to take an active part in out-of-door games and sports. The willowy figure and slender waist are no longer cultivated; but instead, an athletic muscular development and the wholesome tan which tells of exposure to the sun and

Dress which does not cramp any part of the body is essential to success in out-ofdoor games, as it is essential also to health.

Another thing to be said about summer clothing is, that one garment, usually the one worn next to the skin, should be of woolen material. It may be as light as necessary, but of wool.

In order to keep cool on warm days, free perspiration is necessary, and to avoid sudden chilling, with its attendant dangers, average of 304 families, or 17 persons to | of cotton or linen readily yields moisture to the air ; hence the garment becomes cold

orning of all bulls.

Barrie has raised the circus license from 100 to \$300 per day.

permission of his Majesty. The proceeds are to go toward building the church in memory of Emperor William.

memory of Emperor William.

memory of Emperor William. sole is better than a light one for both com in that most healthful of exercises-walk ing in the open air.

Self-Control and Health.

If medical men could-diagnose the mind as easily as the body, they would somehis life, when he was struggling with poverty, and after his wife's death in 1863 she cared for him alone until his death in principle of medicine and surgery, and which send poison into the blood against which no known antidote can prevail. ing recently to a friend in a London club | Hence the importance of self-government of the conspiracy of silence that was waged | as a factor in the preservation of health and well-regulated, contented mind, true to itself, independent of the changing opinions, fashions, and vanities of a hollow are enthusiastic bicyclists. The Czarewitch | goes far to fortify the body against disease, just as a mind of an opposite character tends to undermine physical health and predispose bodily organs to the inroads of disease of every kind. If there is one example of self-control in the broadest sense more worthy than another of imitation, in ancient or modern times, it is the earnest Stoic, Marcus Aurelius, who records seance, had a large globe of goldfish whose anatomy was distinctly outlined, and every ers thus:—"I learned from Maximus to command myself and not to be too much drawn towards anything; to be full of spirits under sickness and misfortune ; to appear with modesty, obligingness, and dignity of behaviour; to turn off business smoothly as it arises, without drudging and complaint. Not to be angry or suspicious, but ever ready to do good and to forgive, and speak the truth; and all this as one who seemed rather of himself to be straight and right than ever to have been recti-

Treatment for Toothache.

Speaking of toothache which has its origin in a disordered stomach, Dr. Rich-1860, and recently sold in London, Robert ardson says that the primary cause of the Browning speaks enthusiastically of the ache is due to dyspepsia, induced by feasting on rich and saccharine foods and drinks. at times when the body is not allowed a free amount of exercise, or when it is con fined too closely indoors. The treatment. therefore, must be general as well as local. The local and immediate treatment consists in applying carbonate of soda freely to the aching tooth, keeping the soda for seven-year-old daughter of F. A. Breck, of Vineland, N. J., has suddenly recovered her speech through seeing the blood flowing drying the cavity thoroughly, inserting into it, so as to reach the nerve, a concentrated solution of carbolic acid. This allays the local suffering temporarily, but it requires to be coupled with the general measures-a few loses of bicarbonate of potass, a brisk mercurial purge, a warm Turkish bath, and vigorous outdoor exer-

Rest After Meals.

Rest after and before your meals is an excellent piece of advice. "After dinner sit awhile" is an old saying with much truth in it. The reason why rest after meals is a necessity for health is found in the plain If we work while digestion is just beginning, we are really "burning the candle at both ends." To eat when we are thoroughly faggod out is just as unwise. Therefore, a little rest before meals is also an excellent health measure.

Notes.

The baby, a medical journal remarks, should not be nursed oftener than once in would penetrate the unwary finger just as two hours, and a much longer time should intervene during the night time.

The skins of fruit should never be eaten. not because they are not palatable or digestible, or are unhealthy in themselves, but on account of the danger arising from microbes