#### SUCCINCT NEWS OF THE SCIENCES.

TIC AND MESSAGES.

the Kills Bacteria-Electricity Destroys Germs Even Better Than Sunlight — Sardines Deserting French Coast.

When Mr. Marconi started his great wer station at Poldhu, in England, r the purpose of transmitting wireless across the Atlantic, many ation would interfere with those of orter range, used in communicating etween ships and between shore and up. Recently Professor Fleming has experimented with the Poldhu apparexperimented with the Foight appar-tus, and reports that his experiments appear to him to afford a complete demonstration of the truth of Mr. Mar-coni's statement that the waves sent out from his power stations do not and will not interiere with the reception of nessages from his apparatus as placed up board ship.

Cilling Bacteria With Electric Light. Alling Bacteria With Electric Light. It has been found that the bactericidal effect of the arc light is much substituted to the arc light is much substituted to the sun is absorbed by the atmosphere. A rapid oscillation high-tension arc, particularly when formed between iron points, gives off an abundance of ultraviolet rays of extremely short-wave length. Quartz is transparent to this light, of which it transmits 60 per cent., hat gelatine and an oxide of iron, even a thin film of it, are entirely opaque. Ice is as transparent as air to these rays, but blood is opaque, and accordingly, in blood is opaque, and accordingly, in assed through ice pressed upon the

Sardines Deserting France.

An unexplained phenomena of sea life as caused great loss to the sardine fishand packers on the west coast of ance. The French sardines have long n known everywhere for their super-quality, but during the past season y seem to have deserted their favorthe quanty, but during the pass exacting they seem to have deserted their favorite haunts, and most of the few caught lave been too large for packing. No estisfactory explanation of the disappearance of the lish, upon which an extensive industry was based, has been offered. Some of the packers say that the fishermen themselves are to blame, because the price of bait, imported from Norway and Sweden, having increased, they neglected to strew it in the usual quantities over water, and thus the eaoals of fish were not attracted to the deast.

Electricity and Memory. At a recent meeting of the Royal So-ciety of Canada, Sir James Grant, M. D., presented a paper on the neurons and cells of the brains in their relation to the faculty of memory, and, after stat-ing that, as with the other tissues of the body, so with the cells of the brain, the body, so with the cells of the brain, evidence of lessening power and activity appears with the passage of years, he added the very interesting statement that the line of present investigation demonstrates that the electrical current.

French engineers have lately made uccessful tests of wireless telegraphy streem engineers nave lately made successful tests of wireless telegraphy between the lofty observatories on the crown of Mont Blanc and the Valley of Chamonix. It had been feared that the absence of moisture in the frozen surface might interfere with the earth connection, but no such trouble was experienced. The only difficulty arose when the alternating current dynamos of the electric light system in Chamonix were at work. At such times the wireless messages could not be transmitted nor received.

Quartz Thermometers.

In France Mons. Dufour has succeeded in making thermometer tubes of pure quartz. Not only are these tubes exceed-ingly transparent, but their resistance to heat and other advantages, product to and other advantages make them superior to glass for thermometers in-tended to measure high temperatures. In such thermometers melted tin takes the place of mercury, and the scale reads from about 465 degrees Fahrenheit up over 1,000 degrees, It could be run up to 1,800 degrees, for quartz does not soften below that temperature. ch thermometers melted tin takes the

Hydrogen as an Illuminant. The production of oxygen and hydrogen on an industrial scale by the decomposition of water with electrolytic apparatus in Germany has led to the suggestion that hydrogen thus produced may find a wide field of employment as a lighting agent. It is now used for inflating military balloons. For lighting purposes it is compressed in steel cylinders. With a proper burner it is said to be a cheaper illuminant that acetylene, the relative cost for equal illuminating power being 25 for hydrogen to 50 for acetylene.

Electric Light From Car-Axles. The "axie light" system is in use on the trains of the Atchison, Topeka & Santa Fe Railroad on an extensive scale. Each ear has its own storage batteries supplied with electricity generated by the axies of the wheels, and the locomoire headlights derive their illumination from the same source. It is estimated that each full train, exclusive of the sometime, develope nearly 5,000 candle-sower light.

Electric Arc Under Water.

are can be employed under water for fusing metal. The intense heat turns the water surrounding the are into steam, thus forming an insulating cushion of vapor. It has been suggested that with proper apparatus the electric are considered by the employed by divers for quickly cutting through large chain cables or iron plates under water.

Even Buds Grow Old.

According to a Government botanist at Washington, there is reason to believe that buds share in the growing old of the parent plant. He illustrates his meaning in this way: Suppose the average life of an individual plant—say a tree—to be 100 years, then a bud removed when the parent plant is 50 years old will also be virtually 50 years of age, and if transplanted by grafting will be able to live on the graft only 50 years more.

years more.

Danger From Gas Engines. Gas poisoning from gas engines has become so common that German author-ities urge that cylinders of oxygen be

#### BAD LANGUAGE.

#### Protests Against the Increasing Use of Profamity.

(From the New York Herald, March 1, 1908).

Writing from Halifax George Wright, whose communication is printed this morning in the column of letters from Herald readers, declares the increasing use of profanity in the United States, use of profanity in the United States, and especially in the east, is a disgrace to the mation. So common has the nabit become, he adds, that playwrights and novelists do not refrain from having some of their characters indulge in it.

Our correspondent is not amiss in asserting that the time has come to call a halt on the use of profanity. No gentleman will suily his lips with disgusting expressions; all others should be taught there is a law to punish them for such unseemly language in public places.

Halifax, N. S., March 9th, 1908.

Halifax, N. S., March 9th, 1908.

To the Editor:
Sir,—I notice the following item from "Chicagoan" giving his views of how profane and other bad language exists in New York, and stating that it is a good deal worst there, than in the west. I can vouch for this fact, as on my visit to the west, a few months ago, both in Canada and the United States, I can say, that although there the flow of profanity is disgusting, still, I did not hear it to the extent you will hear it in the east, where it seems to have become epidemic. Boston seems to be keeping pace with all other cities in this direction. The most flagrant of all expressions you will hear is the name of the Almighty and the Saviour. You can hear this from men and youths in almost any direction you may go, and it is time that every effort should be taken to prohibit this, as it is really becoming a disgrace to the nation. The stage is becoming one of the greatest distributors of profane and bad language. Owing to its use having become so common amongst the people, the playwriter has

of profane and bad language. Owing to its use having become so common amongst the line of present investigation demonstrates that the electrical current through the brain rotates its molecules on the same as to produce a most notable physiological response in the direction of improved memory.

Gigantic Electric Arc.

An 80,000-volt electrical transformer was recently installed at Butte, Mont., for the local lighting and power company, the distance over which the current is transmitted being 60 miles, During the insulation tests of the transformer two voltage was run up to 160,000, and at this pressure an arc was formed between the ends of the cables and the transformer tank, over a distance of five or six feet. But India rubber disks fixed on the cable terminals prevented the formation of the arc. When 80,000 volts are used there is no brush discharge, and the disks are not needed.

Wireless Telegraphy on Mountains. lications are not complete without using profanity or other strong words. The time has come when a halt should be made if there is to be any considerabe made if there is to be any considera-tion given as to the respect of our language and want to rid the country of this most obnoxious habit which seems to be steadily growing and becoming so familiar amongst the youths of the whole continent. Yours truly,

whole continent. Yours truly,
Geo. Wright.
To the Editor of the Evening Telegram:
I have been in this city only two
weeks, but in that time have heard more
agriculturist, wheat and other cereals
can be protected against the ravages of
grows, which are particularly fond of the
grain when its sprouts are just pushing
above the ground, by treating the seeds
before they are sown with a mixture of
coal tar, pstroleum and phenic acid. This
treatment, which delays the growth of
the seed for a day or two, but causes
no damage, imparts an odor that is insufferable to the crows, but which disappear after the sprouts have attained a
larger growth, when they are no longer
subject to attack.

Quartz Thermameters ment where I have not been compelled to listen to language that would not be tolerated for a minute in any city in the west. Persons using it there would immediately be arrested. It is not the men alone that I complain of, New York women, too, seem to think nothing of using language that, were I a woman, would make me blush with shame for my sex. Several times I have found it necessary to take my wife out of a restaurant because of the profanity on the part of the female patrons of the place. What is the matter with New Yorkers. Is there no religion in this city?

Lenten Food.

He's a little fellow.
He measures five to ten inches.
Up in Maine he surpasses himself.
He has been known to exceed a foot length. He eats shrimps and other small crus-

He is found from Virginia to the Gulf

He is found from Virginia to the Guir of St. Lawrence.

He sometimes enters streams and becomes land-locked.

In color, he's a transparent greenish shade above, with silvery sides.

In 1622 Captain John Smith wrote: "Of smelts there is such an abundance that the salvages doe take them in the rivers with baskets, like sives."

This little fish (osmerus mordax) is usually fried after being cleaned, washed and wiped, and is delicious if dipped in egg and bread crumbs first. They are best "green," that is, not frozen.—The Smelt.

#### Singular Effect.

Policeman-What are you shivering Priscner-You're g-going to put me in

Wilson-When your wife caught you hugging the chambermaid I suppose she was speechless with amazement. Wagson-Speechless! Say, you don't know my wife.—Boston Record,



#### DAINTY DRESSING SACQUE.

No. 5642—No garment in the woman's wardrobe can approach the dressing sacque in convenience, utility and comfort. A broad collar extending out over the shoulder gives a distinctive air to this one. The back is gathered into the figure and the fulness in front may be confined by a belt or not just as the wearer decides. Made of French flannel, outing, or for warm weather, China silk, dimity or lawn trimmed as illustrated it would make a charming and comfortable addition to the wardrobe. The medium size will require 3 3-4 yards of 36-inch material.

Ladies' dressing sacque. No. 5642. Sizes for 32, 34, 36, 38, 40 and 42 inches bust measure.

The pattern here illustrated will be mailed to any address on receipt of ten cents.

Address, "Pattern Department," Times Office, Hamilton.

# Fun for Times Readers

(Lippincott's Magazine.)
I tell you, when it comes to dates,
My mother's just the boss!
She tells me all I want to know
'Thout ever gettin' cross.

You'd think she'd get mixed up some times; school I know I do— tt\_Washington\_and\_Plymouth

mother says: "The war with

Spain
Was fought in '98,
The year you all had chicken pox,
Exceptin' Sister Kate.

"The Boer war in Africa— That was a dreadful thing— Began in '99, I know, For Jack was born that spring.

"Ir '98 the Spanish ships Were sunk in Cuba channels, 'Twas summer, for you children had Just changed your winter flannels.

"In 1904, my dear,
The Russians fought the Japs,
That year was very cold, and you
Had chillblains and the chaps."

There's six of us, and we're mixed up
With hist'ry just that way.
Sometimes it's measles, croup or
mumps
But there's no date that ever stumps
My mother, night or day.



#### NOTHING DOING.

Photographer-Madam, would not like a picture of your husband taken with the cathode rays?

Mrs. Rounder—Oh, no; I'm able to see through him quite well enough now, thanks.

#### It Followed.

The following question was asked a class of small boys who were studying Scripture history:
"Where did John the Baptist live:
One small boy answered, promptly,
"In the desert."

"In the desert."
"Quite right," was the reply. "Now what are people called who live in the

"Deserters, sir," was the answer. A Lay of Ancient Rome.

(N. Y. Sun). Macaulay had just taken his pen in

and.
"But," they cried, "the Wellesley prolessor of rhetoric condemns bridge,"
Herewith he doubted whether to let
Horatius hold it or not

"Secretary Cortely on was discussing," said a New York broker, "a question of finance, during the panio. He broke off

He said he was reminded of the Irish armer on the way to the cattle fair.
"Where are you going, my man?'
said an English tourist, stopping this

'To Waterford fair, yer honor,' was the answer.

"The Englishman tooked approvingly at the betters the other was driving.

"And how much do you expect to get for your beasts at Waterford fair?' he asked.

"Solomon and the service of the selection of the selection

ne asked,
"Sure, an' if I get \$40 a head I shan't
do baddy," said the Irishman.
"'Ah,' that's a sample of your country,' suid the Englishman, severely.
Take those heifers to Enghand and
you'd average \$70 a bead for them."
"The Irishman laughed.
"'Just so, yer honor,' he said, 'and if
you were to take the Laake of Killarney
to purgutory yez would get a guinea a
drop,'"—Washington Star.

#### Fletcher's Rules.

Horace Fletcher has printed in a book his rules of life and eating, summing them up thus: Don't eat when not hungry.

Don't ever get angry. Don't drink in a hurry.

Don't drink in a hurry.
Don't tolerate worry.
Don't ever waste good taste.
Don't pass it by in haste.
Don't gobble pure good food.
Don't fail to feed as should.
Don't make work of exercise.
Don't make light of good advice.
Don't never half take breath.
Don't thus court an early death.
Don't squander precious time.
Don't miss to do your best.
Let nature do the rest.

Ananias' Calling. Ananias' Caling.
The Dentist—Now, open wide your
mouth and I won't hurt you a bit.
The Patient (after the extraction)—
Doctor, I know what Ananias did for a
living now.—Home Herald, Chicago.

Losing No Chance.

Ketchum A. Cummin—Miss Wellup, if ou have no engagement for to-morrow

Miss Wellup-I have none, Mr. Cum-I'm-l'm not-er engaged any

Singularity. "Singular, isn't it?"
"What?"

"The present is only the future we had in the past."—Boston Transcript.

Milk for School Children.

Milk for School Children.

A very commendable feature has just been introduced into several German schools. Automats were placed in the courtyards, which for a small coin deliver hot or cold milk.

First, one procures a cup which falls out of an opening and which is made of waterproof strong paper; then a pedal is pressed down and the cup is filled with pure milk at any desired temperature. Heating is done inside entirely automatically by liquid fuel.

The cleansing and rinaing of the tubes and tanks through which the milk runs is also effected automatically. The success with these patented automats has been very great and they will be installed in many more schools of the German Empire.—Municipal Journal.

#### ORANGE JUICE AND HEALTH For Stomach and Skin

For Stomach and Skin

Few of us realize what an important part the skin plays in keeping us well or making us ill.

The milions of tiny glands, or pores, are intended to rid the system of waste matter, which the blood brings to the skin. It is a well-known medical fact that the healthy skin carries off more Urea or waste matter than the kidneys. Just think how much poison remains in the system when there is any skin trouble.

The skin and stomach are intimately aesociated. Find a person with a dry, harsh skin, and you will find one who suffers with indigestion or constipation, and both, usually.

Both may be relieved by a judicious use of orange juice. Both can be cured by taking the juice of—an orange every morning before breakfast, and taking "Fruit-a-tives" are fruit juices in tablet form. The fresh juices of oranges, apples, figs and prunes are separated from the pulp, and then combined in such a way that the medicinal action is intensified.

Orange juice alone well not cure

fied.

Orange juice alone well not cure Skin, Stomach or Bowel troubles. But when taken in connection with "Fruit-atives," a positive cure results. "Fruit-atives" 'may be obtained at all dealers or will be sent on receipt of price—50c.

a box—6 for \$2.50. "Fruit-a-tives," Limited Chicago, a box—6 for \$2.50.

## KINGS WHO COULD EARN A

If all the crowned heads of Europe should be dethroned most of them, if not all of them could make a living in some other pursuit.

The emperor of Germany, who is the proprietor of a most important porcelain factory at Cadiener, from which, it, is said, he derives a yearly profit of \$50,000.

is said, he seek of the seek of the best judges of poultry in all England. It is a specific from his produce is reckoned at the seek of the best judges of poultry in all England. His profits from his produce is reckoned at seek one of a year.

2200,000 a year.

The reigning prince of Lippe-Detmold deals in butter and eggs, while a prosperous brick factory increases his yearly profits.

perous oriek factory increases his yearly profits.

The King of Wurtemberg is the proprietor of two hotels in his kingdom,
which net him nearly \$50,000 a year,
while King Peter of Servia runs a barber shop, owns a patent medicine factory, and conducts a motor car agency
in his capital.

It is said that King Victor Emanuel
H. of Italy is so passionately fond of
the automobile that were it necessary
he could readily earn his living as a
chauffeur.

Emperor Owns China Factory.

chauffeur.

Emperor Francis Joseph of Austria, owns a chinaware factory in Vienna, which is one of the most famous in the world, and employs 1,000 skilled workmen; and the king of Saxony conducts a similar business, though, of course, in a much smaller scale.

King Leopold of Belgium, whatever may be said of him because of the Congo rubber trade notoriety, was astute enough financier to see money in the proposition before any one else had sense enough to invest in the Congo lands. It has been stated that Leopold sunk \$25,000,000 of his private fortune in the Congo, but his profits therefrom after the first year amounted to almost a million dollars per annum.

Queen Amalie, widow of the recently assassinated King Carlos, is the only royal M. D. in the world, and stories are told of her practicing the profession of medicine among the poorer classes of Lisbon, "incognito" and "gratis." She is only known among her patients as "the good lady doctor." She is also an expert at the millinery trade, and in the royal residence there is a room in the secunsion of the queen's quarters where hats. Bonnets, and toques are fashioned and modeled after her own exclusive designs. King Carlos himself was much interested in music, interested in both grand and comic opera, and somewhat of a musical composer.

Queen Carmen Sylva is the only work-ing journalist among the crowned heads of Europe, but she has recently gone in-to business, as she has opened a book store in Bucharest and also one in Paris.

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Queen Has Private Theatre.

Queen Wilhelmina of Holland could make her living as an actress, for her chief hobby has always been the stage chief hobby has always been the stage and acting. A few years ago Queen Wilhelmina had a small theatre built for helmina had a small theatre built for merit had been always been the stage of the residual had been an actress with some the decise of he carina. She is a beautiful woman, with delicately cut feature of th

This fondness of the duchess for acting and the stage produced a great scandal a few winters ago. A famous star actress with whom the duchess had been on exceedingly friendly terms was taken suddenly ill one night before the beginning of a performance in which she was to appear at the Moscow theatre.

Busing Princess on the Stage.

Russian Princess on the Stage. Russian Princess on the Stage.

It being found impossible for the actress to go on the stage for that evening, the management was in despair, but when the Grand Duchess Serge arrived to see her friend perform and was informed of the catastrophe she quietly told the management she would herself act that night if a different play were substituted and her presence and identity kept a secret. This the management pledged. Another play was put on, the duchess taking the part of the heroine, and the ardent love making that took place between herself and the hero, a particularly handsome actor, roused the audience to a great pitch of enthusiasm.

out of an opening and which is made of waterproof strong paper; then a pedal is pressed down and the cup is filled with pure milk at any desired temperature. Heating is done inside entirely aut makically by liquid fuel.

The cleansing and rinsing of the tubes and tanks through which the milk runs is also effected automatically. The success with these patented automats has been very great and they will be installed in many more schools of the German Empire.—Municipal Journal.

Toe Bad.

"Hello, Cholly, you look depressed. Some one been getting the better of you?"

"Yes. Millions' motor smells etronger than mine."—Sloper's Half Holiday.

The fool is never known by his sillence. iasm.

But there were lynx eyes watching

#### Valuable Premiums Given Away Free!



### LIST OF PREMIUMS.

LIST OF PREMIUMS.
Ladies' or Gente' Gold Finished Watches
Ladies' Sold Silver Watches.,
China Tea Sets.
Rogers Silverware Dinner Sets.
(Siz silver plated knives and six forks)
Rogers Silverware Dessert Sets.
(Six Dessert Spoons, Six Tea Spoons,
Sugar Shell, Butterknife, etc.)
Gold Finished Parior Clocks.
Water and Lemonade Sets.
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Ten Key Hardwood Accordeons.
Handsome Violins and Bows.
Toilet Sets. Toilet Sets.
Parlor Lamps, etc., etc.

(State which premium you desire.)

Do not fail to write your name and address very plainly.

BO NOT SEND ANY MONEY. BOYEL MANUFACTURING CO.

Dept. H., MONTREAL 

Zola's yearly income was \$80,000. Daudet's "Sapho" brought \$200,000. Lamartine's "History" brought \$100,

Hugh Conway sold "Called Back" for Chateaubriand's literary earnings were

Mark Twain in his lifetime has earned

First Suburbanite—I'm not going to have a garden this year. I had one last summer and it kept me as thin as a rail. Second Suburbanite—Worked too hard at it, eh? First Suburbanite—No; I tried to live on what I raised in it.—Boston Record.

All is good that is useful. German

#### WORTH TAKING

One ounce Fluid Extract Dandelion; One ounce Compound Salatone; Four ounces Compound Syrup

Sarsaparilla;
Mixed and taken in teaspoonful
doses after each meal and at bedtime,
is pronounced by a prominent physician to be the best mixture for the
cure of the kidney, bladder, and all
winner troubles

urinary troubles.

This says the doctor, is the most simple though remarkable prescription ever written to cleanse the system of impurities and waste matter. It acts as a powerful tonic to the kidneys, forcing them to filter out the acids and poisons, overcoming rheumatism, lame back, sciatica and other afflictions arising from sour, impure blood.

The ingredients can be procured at any good drug store, and being purely vegetable and entirely harmless, cau casily be mixed at home.

If you have a suffering friend show

If you have a suffering friend show this to him, as he will undoubtedly be pleased to learn of so simple and highly recommended a remedy.



# SYNOPSIS OF CANADIAN

prior right of entry.

Applicant ter cancellation must state in
what particular the homesteader is in delast,

A homisteader whose entry is not the
subject of cancellation proceedings, may,
subject to the approval of Department, reliconials it in favour of father, nother, so,
liconials it in favour of father, nother, so,
liconials in favour of father, nother,
of the control of the father of the control

DUTIES—A cettler is required to perform
the cattles under one of the following planas:

(1) At least six months' residence upon
and cultivation of the land in each year during the term of three years.

(2) A homesteader may, if he so desires,

in the term of three years.

(2) A homesteader may, if he so desires, perform the required residence quites by living on farming land owned soisly by himselve on farming land owned soisly by himselve on the requirement of the vicinity of his homestead. John ownership in land will not meet this requirement.

(3) If the fasher (or mother, if the father is deceased) of a homesteader has permanent residence on farming land owned soisly by him not least than eighty (80) acres in extent, in the vicinity of the homestead or upon a homesteade entered for by him in the vicinity, such homesteader may perform his own readdence duties by living with the father (or mother).

mother).

(4: The term "wicinity" in the two preceding paragraphs is defined as meaning notmore than nine miles in a direct line, exclusive of road allowances crossed in the

Before making application for patent the ettier must give six months' notice in writing to the Commissioner of Dominion Lands at Ctrawa, of his intention to do so. SYNOPSIS OF CANADIAN NORTAWEST

COAL—Coal mining rights may be ideaed for a period of twenty-one years at an annational rental of \$1\$ per acre. Not more than
\$1.560 acres shall be leased to one individual
or company. A royally at the rate of five
cents per ton whall be collected on the merchantable coal mined.

QUARTZ.—A person eighteen years of age,
or over, having discovered mineral in place,
may locate a claim 1,500 x 1,500 feet.

The feet for recording claimed.

At least years or paid to the missing recenter of the coator may, upon having a survey made, and upon complying with
other requirements, purchase the isand at \$1\$
executives.

An applicant may obtain two leases to dredge for gold of five miles each for a term of twenty years, renewable at Le diacretion of the Minister of the Interior.

The lesses shall have a dredge in operation within one season from the date of the lease for each five miles. Rental \$10 per annum for each mile of river leased. Royally at the rate of 2½ per cent, collected on the output after it exceeds \$10.000.

aty of the Minister of the Interior N. B.-Unauthorized publication of this ad-

## The Watch House **Wedding Gifts**

and Cut Glass Go hand in hand. With our complete stock of Cut Glass we can show you almost any-thing in both ornaments a

well as table ware. Klein & Binkley 35 James Street North

Issuers of Marriage Lie

**PIG METALS** 

Tin, Zinc We are Headquarters, send us your inquiries.

Copper, Lead,







