TURBINE ENGINES FOR RAILWAYS NEXT

One Being Constructed at Glasgow Which May Revolutionize Land Motive Power

TURBINE DRIVES THE DYNAMOS These Turn the Wheele-Water In

Tanks is Vaporized and Condensed In a Practically Closed Circuit-The Question of Cost.

London, England .- President Hugh Reid of the Glasgow University Engineering Society has announced that a new locomotive is under construction which may lead to the application to the railway engines of the world of the turbine system, which has revolutionized steam propulsion on the Atlantic. Mr. Reid describes this engine as the first steam turbine electric locomotive.

Various proposals had been made to electrify the existing steam railways, he said, but the anticipated cost of conversion and of prospective and subsequent maintenance had hitherto prevented progress. Attempts had been made to also introduce independent self-generating electric units that might operate over the existing railway systems without necessitating any electrical equipment on the railways themselves. The Heilmann steam-electric locomotive which was built in 1894 was the most notable of these attempts, but Mr. Reid asserts that the new steam turbine electric locomotive which is now being built by the North British Locomotive Company is a much more practical development.

The steam is generated in a boiler the ordinary locomotive type, of which is fitted with a superheater. The steam from the boiler is led to a turbine of the impulse type, running at a speed of 3,000 revolutions a minute, to which is directly coupled a continuous current, variable voltage dynamo or generator. The dynamo supplies electrical energy of from 200 to 600 volts to four series of wound traction motors, the armatures of which are built on the four main or driving axles of the locomotive.

The exhaust steam from the turbine passes into an ejector-condenser, and is, together with the circulating and condensing water, delivered eventually to the hot well. As the steam turbine unlike the reciprocating steam engine, requires no internal lubrication, the water of the condensation is free from oil and consequently is returned from the hot well direct to the boiler by means of a feed pump. The water evaporated by the boiler is therefore returned to the boiler again and again and the supply of water carried in the tanks is actually circulating water for condensation purposes. This condensing water is circulated within what is practically a closed cycle by means of small centrifugal pumps driven by auxiliary steam turbines placed alongside the main turbine and dynamo.

Mr. Reid declares that the idea is the outcome of much thought and experiment extending over a period of several years, and is being carried out on a large scale. As the engine under construction is intended for express passenger work, Mr. Reid hopes to obtain comparisons from its actual working with the performances of reciprocating steam locomotives, especially as regards the relative consumption of fuel and water, and also as to the efficiency of transforming the energy of steam into draw-bar or train pull, and also relative to the rapidity of acceleration under the old and new systems. Most of the component parts of this steam turbine electric locomotive have already proved themselves effective and efficient in other applications, and the novelty lies in the combination of the different elements of which the locomotive is composed. The expected results in this case should not therefore, Mr. Reid believes, be so problematical as in the case of an invention where the novelty is in the details. It is the question of the cost of the locomotive which most troubles the patentees or raises any doubt as to its general adoption.

# NOTED SQUIRREL DEAD

Trolleymen's Pet Crushed as He Tried to Board Car. Caldwell, N. J .- Sandy, the gray

squirrel which had its quarters near the loop where the trolley cars turn and head toward Newark, met an untimely fate here when he was crushed under the wheels of one of the cars and killed. Sandy was well known to all the motormen and conductors on the Bloomfield avenue line of the Public Service Corporation. It was the squirrel's custom for the last two years to board the cars as they made the run around the loop here, forage in the aisles and seats for stray peanut and chestnut kernels, and then disembark as the end of the look was reached and scamper back to his nest. The cars usually were empty as they went around the loop

and Sandy never was molested. The squirrel became so well known to the trolley men and lost so much of its timidity that it would .eat out of their hands. On one occasion Sandy made the return trip to Newark perched on the controller of a car in charge of a kindhearted motorman who was a favorite of the animal. Sandy, however, did not take kindly to the experience and never again essayed the trip. Shortly before noon to-day the squirrel made a dash to board one of the cars as it entered the terminal. The animal missed the open door of the pay-as-you-enter car and landed under the wheels. Sandy was crushed to death before the car could be stopped.

#### DEATH IN DRY SHAMPOO.

Consternation Caused in London by a Society Woman's Tragic Fate.

London, England.-The sudden death of a society woman during the process of having her hair dry clean ed is causing the greatest controve sy. Hairdressers protest that this method of hair cleaning is absolutely safe, but doctors insist that the woman was suffocated by the fumes of the chemicals applied to the hair. It is said that the tetrachloride of carbon, which forms the basis of the cleanser used. was far too dangerous to be hand'ed by hairdressers. It is aliled 'to benzine but resembles chloroform in odor. It produces death with an intervening period of anaesthesia.

It is likely that a law will be passed forbidding its use, as the case of a French actress, who was fatally burned during the process, has been followed so quickly by the present case of suffocation as to arouse much feeling regarding the dangers of the pro-C688.

#### A \$10 CALF COSTS \$110,000.

Of Latter Sum Taxpayers Will Be Let In for \$6,000.

Klamuth Falls, Ore .- In a few minutes a jury found a verdict for the defendant in the Kelley-Arant damage suit, last of the cases resulting from the criminal prosecution of Jay Arant. who was indicted for the larceny of a calf more than two years ago. Arant was twice tried on a charge of larceny, the first trial resulting in a disagreement, while the second acquitted him. Three cases resulted over the own-

ership of the calf.

The calf involved in the litigation was worth approximately \$10. The money expended in litigation will aggregate close to \$10,000, and of this amount the taxpayers of the county will be forced to pay not less than \$6,000.

#### CHEMICAL DYES IN RUGS.

Cheap Coloring Make Care Necessary in Selecting Imported Goods. W. F. Doty, United States Consul at

Tabriz, furnishes some interesting facts on the extent to which chemical dyestuffs are supplanting those of vegetable origin in Persia.

"The large carpet importing houses," he writes, "have done their utmost to guard against coal tar preparations, and presumably most of their Oriental rugs are about what they are represented to be. Naturally, the price of such rugs is above that of the products in which chemical dyes are employed. In Persia there are some well established rug exporting firms that loudly cry, "Back to the vegetable dyes." It is to them the credit is given that a royal edict was issued more than eight years ago forbidding the introduction of aniline coloring material. This law, however, is not enforced.

#### Faith and Works.

The author of "Seventy Years Young," Mrs. Emily P. Bishop, declares that it is as easy to do as to wish to do, and quotes this incident in illustration, says an exchange.

A little girl's brother set a trap to catch birds. She knew it was wrong, cruel, against the laws of kindness, altogether inexcusable from her point of view.

She wept at first; then a fittle later her mother noticed that she had become cheerful once more, and inquired as to the cause.

"What did you do?" asked the mother.

"I prayed for my brother to be made a better boy.' "What else?"

"I prayed that the trap would not catch any little birds."

"What else?" "Then I went out and kicked the old trap all to pieces."

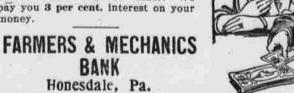
How Dickens Learned to Write. When asked by one of those wise acres who are convinced that in order to write good English a man must be taught to write bad Latin where his son was educated, Mr. John Dickens replied with considerable aplomb that his son-er-well his son-ermight be almost said, in a sense, to have educated himself. The street, the warehouse. Mr. Creakle, an attorney's office, the reporters' gallery, and postchaise-such was the education that equipped a young man of twentyfour to preside at the banquet of literature at an unprecedented age, to make the best speeches in London, to go into the best society, to set the table in a roar, to lead every company in which he mixed, to travel, acquire French and Italian with ease, and write the most animated letters known to the modern world .-- London Times.

#### Singing Kettles.

The Japanese, who know so well how to add little, unexpected attractions to everyday life, manufacture, in a great variety of forms, iron teakettles which break into song when the water boils. The song may not be very perfect melody, but it is perhaps as agreeable as the notes produced by some of the insects which the Japanese also treasure for their music. The harmonious sounds of the teakettles are produced by steam bubbles escaping from beneath thin sheets of iron fastened close together, nearly at the bottom of the kettles. To produce the best effects some skill is required in regulating the fire. The character of the sound varies with the form of the kettle. These curious singing kettles have been used by the people for many centuries.

#### FOR A NEST EGG.

It's a mighty fine thing for anyone to have a little cash lying in the bank. The young man or woman about to marry, the man who is suddenly taken sick or loses his position-all will find their savings very useful at some time or other. We pay you 3 per cent. interest on your money.





CASTORIA

The Kind You Have Always Bought, and which has been in use for over 30 years, has borne the signature of

and has been made under his perat ft flitcher: sonal supervision since its infancy. Allow no one to deceive you in this, All Counterfeits, Imitations and "Just-as-good" are but Experiments that trifle with and endanger the health of Infants and Children-Experience against Experiment.

## What is CASTORIA

Castoria is a harmless substitute for Castor Oil, Paregoric, Drops and Soothing Syrups. It is Pleasant. It contains neither Opium, Morphine nor other Narcotic substance. Its age is its guarantee. It destroys Worms and allays Feverishness. It cures Diarrhœa and Wind Colic. It relieves Teething Troubles, cures Constipation and Flatulency. It assimilates the Food, regulates the Stomach and Bowels, giving healthy and natural sleep. The Children's Panacea-The Mother's Friend.



THE CENTAUR COMPANY, TY MURRAY STREET, NEW YORK CITY



Sameness in foods grows monotonous. Folks want a frequent change. And see how easy it is to have the variety all people crave. There's a new kind of meal for your family every time you serve Beards-ley's Shredded Codfish in a different way. It makes dozens of delicious dishes. Each one new in taste. You can have it once a week the whole winter through and never serve it

twice alike.



#### THE CITIZEN, FRIDAY, NOV. 26, 1909.

TO STOP FRAUDS.

Only a Beginning Made In

**Gustoms Exposures.** 

CONFERENCES AT WASHINGTON

Collector Loeb Says Government

Will Get More From the Sugar

Trust Than the \$2,237,000

Already Paid.

Washington, Nov. 23 .- Two confer-

ences over the custom frauds in New

York were held here in the office of

the secretary of the treasury. They

were participated in by Secretary

MacVeagh, Attorney General Wicker-

sham, William Loeb, Jr., collector of

customs at the port of New York, and

Henry A. Wise, United States attorney

The conference had to do with addi-

tional prosecutions of the sugar trust

and grafting employees of the New

York custom house. They lasted more

than five hours. Afterwards Secretary

MacVeagh gave an idea of what had

The government intends to go the

limit in stopping the frauds against

the customs revenues, according to Secretary MacVeagh. What has been

done at the New York custom house

is only a beginning. Methods at cus-

tom houses at other principal ports

The conferences are expected to be

productive of interesting results in the

way of an additional effort to make

the sugar trust pay to the government

some of the money which the govern-

ment lost through short weighing of

sugar and other devices. Mr. Loeb

said the government would get some-

thing besides the \$2.237,000 which the

sugar trust paid after the government

produced figures to show how much it

Others well informed of the govern-

ment's purposes admitted that ar-

rangements were under way to recov-

er more money from the trust and that

the chance for success was good. In-

cidentally Collector Loeb had some-

thing to say about the credit for ex-

The real beginning, he said, was

when Richard Parr was appointed a

special employee of the treasury de-

partment and put to work in the New

York custom house under instructions

to run down the corruption which

was going on. Mr. Loeb said that Mr.

Parr owed his appointment to Mr.

Loeb when the latter was secretary to

He went on to say that Mr. Roose-

velt had appointed Henry L. Stimson

special counsel for the government to

prosecute the sugar grafters and

thieves and that the first conviction

was obtained on the day after Mr.

Roosevelt left the White House. Mr.

Loeb added a good word for the pres-

ent administration in its effort to bring

When Secretary MacVeagh was ask-

ed to tell what went on at his office

he said that while the New York sugar

frauds were discussed the conference

those guilty of the frauds to justice.

posing the sugar frauds.

President Roosevelt.

will undergo a searching inquiry.

taken place.

had lost.

for the southern district of New York.

#### BARS PRIESTS FROM BIOGRAPHS

Pope Considers Many Shows Hostile to Religion and Morals.

Rome, Italy .- The Pope has issued a decree forbidding the clergy to attend bioscope exhibitions of any kind on the ground that many such exhibitions offend religion and morality.

It seems that the clergy, who loyally obey the well known prohibition against attending theatres, patronized the cinematograph shows freely.

#### A Jealous Dog.

Montclair, N. J.-Ted, a setter dog belonging to A. J. Sweet at Montclair, became jealous of a new collar bought for his companion, Gyp, and, after enapping Gyp, was whipped.

Ted then slunk to the city pound, closed for the winter, and, jumping the high fence, took possession of a kennel. The owner had to get the Town Clerk to release the animal.

Co-Eds Want Pool Tables. Madison, Wis .- Some of the co-edu at the University of Wisconsin have requested that pool tables be placed in the Women's Hall, which is gen-erally known among the students as "Eve's Hall."

#### "NO, SIR, THE THIRD," SAID YOUNG MAMMA.

Pastor Was Only Inquiring if It Was the Ninth of the Month.

Flushing, L. I.-A clergyman, pastor of a popular church here, received as a caller at his parsonage a young matron carrying in her arms a chubby faced youngster.

"I want the baby christened," the mother said.

After the ceremony the clergyman started to write out the baptismal certificate required by the Board of Health

Forgetting for the moment the date of the month, he remarked to the mother:

"This is the 9th, isn't it?" "No, indeed, sir," replied the young matron indignantly, "it's only the third."

#### PIN DESTROYS EYESIGHT.

Lodges In Pupil When Woman Shakes Dust from Her Skirt.

Long Branch, N. J .- Mrs. Wallace Kittel of Glendale has lost the sight of her right eye through a pin that pierced the pupil. Returning from a visit to a niece in Millville she found the skirt she had worn dusty, and gave it a shaking. Suddenly there was a piercing pain in her eye and, reaching up, she pulled out a pin that was deeply imbedded in the pupil.

Suffering great pain, she was hurried to an eye specialist here, but he gave her no hope of ever seeing with the eye again.

#### One Hour Sentence Profitable.

Baton Rouge, La .- After serving a sentence of one hour in the penitentiary for involuntary manslaughter, Elmore Williams, a negro, was discharged and given the usual allowance-\$5 a new suit of clothes and a pair of shoes. He had never made so much in the same length of time in his life.

#### Violet Wisconsin's Flower.

Milwaukee, Wis .- Returns from the vote of Wisconsin school children on the choice of a State flower are in and the violet wins by a big majority.

took a wider range. One thing, he said, was that the frauds against the customs through the smuggling of "sleeper trunks" would amount to more than \$1,000,000 at New York alone.

Secretary MacVeagh admitted that another question under discussion was that of the statute of limitations. He said that the federal authorities were fully aware that it would be necessary to hasten matters in order to obtain the indictment of some of the guilty before the intervention of the statute and that Attorney General Wicker-sham and United States Attorney Wise were watching this matter closely with a view to keeping the cases alive.

The secretary said that the government would take the necessary steps to recover every dollar found to have been lost to the treasury through customs frauds.

There had been a popular misapprehension of the circumstances surrounding the acceptance by the government of the \$2,000,000 repaid by the sugar trust, he asserted. "This sum," said the secretary, "was in full settlement by the sugar trust of all money found to be due on account of the weighing frauds. It does not comprise money due on account of other frauds.'

### CONVULSIONS OF THE EARTH.

Five Craters Active In Teneriffe and People Fles In Terror.

Madrid, Nov. 23 .- The flow of lava following the eruption at Teneriffe is increasing. Five craters are now pouring forth prodigious quantities of lava. The main stream moves at a rate of about fifty yards an hour. Viewed from the front, it measures twenty-five feet high and is about 700 yards wide. There are numerous other streams of almost equal size.

An immense area of cultivated land in the most fertile portion of the island has been completely ruined. English fruft steamers are embarking many refugees, who are fleeing in ter-

Too Late. His Wife-If a had my life to live over again I would never marry. Her Husband-I'm sorry you didn't tell me that when I proposed.-New Kork World.

#### An Unlucky Date for Royalty.

The number fourteen has come to be looked upon as an unlucky one for the royal family. It was on what was apparently a mild attack of typhoid fever, and on the anniversary of her father's death, seventeen years after, the Grand Duchess of Hesse, always dearer to the English nation under her name of Princess Alice, died a victim to her motherly devotion. The late Duke of Clarence's death took place on January 14, and twice has his present majesty been in danger of his life on that date-the first time when as Prince of Wales he lay ill of typhoid fever, and the doctors all but gave him up on December 14, 1871, and again on June 14, 1902, when down at Aldershot, in the middle of the night, the first alarming symptoms of the illness that kept him hovering for several days between life and death first manifested themselves.

Biggest Chair in the World.

Gardner, Mass., boasts of its being the biggest chairmaking community in the world, and is known popularly as 'Chairtown." Believing in advertising its business, it has had set up near the railroad station "the biggest chair in the world," which stands on a concrete base in the middle of the long lawn alongside the Boston & Maine station platform.

The chair weighs two hundred pounds, and is five and one-half feet square at the base and is twelve feet high. To make this bit of furniture there was used aix hundred feet of lumber.

As a bit of town advertising, as well as an indication of what's going on in the town, this chair is a winner, and every one passing through Gardner is sure to see it and to remember it.

One morning while at the blackboard, hearing a great commotion bebind her, the teacher turned around and sternly demanded: "Johnny, what are you doing?" "Nothing," he replied.

"Harry, what are you doing?" "Ealning Johnson"

Shredded Codfish, it's no bother at all to prepare. No more trouble than making coffee. For Breakfast Or Lunch Tempt the family with Shredded Cod-th Balls for tomorrow's breakfast or

Or let them try it Creamed. Or with

Or have a Shredded Codfish Omelet-

Souffle-Chops-Croquettes-Kedgeree. Here are new things to eat which will fairly melt in the mouth.

No Trouble

THE PACKAGE WITH THE RED BAND

BE

No matter how you serve Beardsley's

. .

TY'S

It is ready to cook the minute you open

the package. And no fish food in existence is half so

And no have a cost in the choicest fish—the finest that come out of the deep. And we take only the best part of each

fish-only the sweetest meat.

#### Have It Tomorrow

Have It Tomorrow / Order a package of Beardsley's Shredded Codfish today. And tomorrow you'll have the finest meal anyone ever sat down to. Please see that your grocer gives you Beardsley's—the package with the red band. We want you to have the kind you are sure to like. For Beardsley's is the only Shredded Codfish. Our wonder-ful Shredding Process is patented.

Free Book of Recipes

Ask your grocer for our book of new and tempting recipes. Or write us—we will send you the book, and with it a generous sample of our Shredded Codfish.

J. W. Beardsley's Sons 474-478 Greenwich St., New York

Whatever, save the purest and Bass seavail. Some of Our Other Pure Food Products : Acme Sliced Bocon; Acme Sliced Dried Beef; Acme Peanut Butter.

## The Era of New Mixed Paints !

This year opens with a deluge of new mixed paints. A condition brought about by our enterprising dealers to get some kind of a mixed paint that would supplant CHILTON'S MIXED PAINTS. Their compounds, being new and heavily advertised, may find a sale with the unwary.

THE ONLY PLACE IN HONESDALE CHILTON'S MIXED PAINTS

### Is JADWIN'S PHARMACY.

There are reasons for the pre-eminence of CHILTON PAINTS:

1st-No one can mix a better mixed paint. 2d-The painters declare that it works easily and has won derful covering qualities.

8d-Chilton stands back of it, and will agree to repaint, at his own expense, every surface painted with Chilton Paint that proves defective.

4th-Those who have used it are perfectly satisfied with it, and recommend its use to others.

Sec.