HEAT SOLVES ENGINE PROBLEM ON FROSTY DAYS.

The colder the weather gets the the exhaust ripe, so that the hot air more difficult it is to make the engine surrounding the pipe is conveyed to start. Noises indicating that cars have acute attacks of bronchitis can entering the intake, thus supplying the intake, the intake the carbon that the engine surrounding the pipe is conveyed to start. be heard issuing from garages these the heat necessary to effect vaporizasnappy cold mornings. Men can be tion. This "stove" or gas warmer seen running back and forth from might be called a "hot air furnace." house to garage armed with steaming teakettles and dishrags.

Now, to the novice, the new owner,

This condition of gas was absent for several years. In the early days of Persistent experiments produced a carburetor which overcame the trouble. Then, almost as soon as a carburetor was developed which ity of the gasoline was found to have

has a greater heat-producing quality, heat until these warm up. if only we can get it properly mixed a real service to auto men, once we have learned to utilize it economically given us a gas which is hard to vaporize on a frosty morning.

Must Heat the Air.

In changing gasoline from liquid to vapor considerable heat must be sup-When the atmospheric temperconditions it is possible for thoroughly vaporized gasoline to be again condensed. The man who does not understand is inclined to say uncomplimentary things about the engine and talk about "fireproof gasoline." The only trouble is that the temperature is so

facturers put out a "stove" to heat the seems to be the stove and dishrag for the cold engine.

How to Raise Temperature.

The process of vaporization absorbs the first inclination would be to blame temperature of the liquid one degree the manufacturer of the engine. It takes a certain amount of heat. The isn't the fault of the engine at all, it amount required per degree remains is because "the careline at all, it amount required per degree remains." is because "the gasoline doesn't gas." the same until the point of vaporiza-However, there is a solution of the tion is reached, when several hundred problem, at least enough of a remedy times that amount of heat is required to make life a little happier for the to effect vaporization. The "hot air" furnace supplies the extra amount of heat.

A great many carburetors have the automobile construction, before the manufacturers were able to devise a the water from the cooling system is carburetor for vaporizing gasoline circulated through it, supplying some under all conditions, we had this same heat in that way. Sometimes that in trouble as soon as the weather turned itself is sufficient, but at present it seems advisable to use both. Neither one of these is in operation when the engine is started; the "hot-air furnace" depends upon the exhaust pipe would vaporize the gasoline under adverse conditions, somehow the volatilupon the engine itself being heated long enough to warm up the circulation, so that it becomes nec-It is true that the gasoline now sold essary to find some means to supply

and volatilized. It may be that the garage the gasoline will vaporize gasoline producers, by putting heavier properly and the engine will run in gasoline on the market have been of good shape, but as seen as the car goes cut into the cold air it will cool the engine so that some of the gasoand efficiently. They may have had line will be condensed. Therefore we in mind higher power, but they have close the radiator cover partly or wholly until the engine is thoroughly warmed. If the car is started in a cold garage the teakettle and dishrag method must be resorted to. Wrap the cloth around the intake pipe and the carburetor so that it does not ature is too low there is not sufficient boiling water on the rag, taking care heat in it to vaporize the gasoline that none gets in the air intake. The Baden-Powell arrived at Trinidad and sprayed in to the carburator. When sprayed in to the carburetor. When hot water will heat the carburetor and all the Barbadian or Badian boatmen the engine is warm the process of vaporization goes on from the process of intake pipe and raise the temperature and cab-drivers struck work and hur vaporization goes on from the needle of the mixture so that the engine will ried to the landing-stage. valve to the moment of ignition, but run. In some cases it may be necessary if the engine is cold the process is even to drain out the cooling system and fill it with hot water, so that the combustion chamber becomes heated up.

Of course, sometimes the skipping we send it into the carburetor.

Therefore it Tis the lee side I will be going, sorr,

#### Forest Fires and Land Clearing.

Most citizens are aware that practically all the forest provinces have adopted brush-burning laws which prohibit the use of fire to clear land, except during certain months of the year unless the fire ranger in the district gives written permission to burn on a stated date. A paragraph has been going the rounds of Canadian newspapers this autumn to the effect that Make your place, and then you'll know as a result of a forest fire a settler in the north country was able to clear the debris off two acres and get the All that fills with peace and power, land ready for crop for twenty dollars, aid of fire it would have cost him \$200. The in That shall lift you out of shadows and on ye, feyther." frence from the statement is that had this forest fire not broken out the settler would have had to use the more expensive method. And the paragraph went on to state that forest fires were therefore not wholly evil. The statement leaves out two important facts. In the first placesettlers are not, in any province, prohibited from using fire to clear their Settlers are permitted, and thousands in every province every year avail themselves of this permission to burn off their "slash," when the season and the conditions are such that there is a reasonable expectation that the fire will not escape from their farms to the property of other settlers. The second point omitted is that every forest fire, running wild, even though it does not happen to result in loss of life, or to burn houses and barns and other like property, burns timber which would have been harvested by some person for his own good and the good of the country. Besides, some of the worst forest fires in history have been caused by escaped clearing fires. There never was and never will be a good forest fire.

## The Sticker and the Striker.

A hammer once said to a nail, 'Your value don't begin "Until I knock you on the head "And start to drive you in "You have a head, I must admit,

But nothing seem to know "Until you are to usefulness "Awakened by my blow." "Tis true," replied the nail, "but I "As soon as you are through," "Stick on the job, my first and last,

'As I was meant to do. "I am no rover, once in place I never start to hike-"While you swing this way and swing

that Foreter on the strike-"

## Making One's Place.

If you've made the place you toil in, Then you have not toiled in vain. f you fashioned out of duty, Out of service and of pain,

Something nobler than the average, something finer than the rest, have crowned your life with honor-for you know you've done your best.

Then you'll master all it brings. whereas had he attempted to clear it For it's better than a kingdom to have strongest of Glasgow accents cried to place in life

shall save you out of strife.

## The Seaweed Harvest. \*

That every year there is a harvest of seaweed is a fact which is not generally known.

This industry is carried on in Hol-The seaweed is mown with scythes, when the tops almost reach the surface of the water. The harvesters, clothed in watertight garments reaching to the shoulders, work when the tide is low.

When this industry began, only one scythe was used at a time, but now several are fixed to a line which the workers draw to and fro in a saw-like manner above the base of the weed.

After the weed has been cut it is spread out in order that it may be withered in the sun. When it becomes black it is soaked in water. fresher the water the blacker the seaweed turns, and the blacker the weed, the higher becomes its value.

After being soaked for a few days, product is spread out in the fields to dry, and when thoroughly crisp it is made up into bales weighing about one hundred pounds each. It is then ready for the market.

Seaweed has lately been found to produce gelatine of a very high

## Shade.

The kindest thing God ever made, His hand of very healing laid Upon a fevered world, is shade.

Green temples, closed against the beat Of noentime's burning glare and heat Open to any pflgrim's feet.

This is God's hospitality, And who so rests beneath a tree Has cause to thank Him gratefully.

—Theodosis Carrison.

## and the worst is yet to come



# eat until these warm up. When the car is started in a warm SOME FUNNY TALES OF FOREIGN LANDS

#### BADEN - POWELL MIS TAKEN FOR A NEGRO.

#### Lord Frederic Hamilton Relates Many Interesting Anecdotes of Life Abroad.

A Negro, questioned on the matter,

replied with hauteur: "You ask me dat, sir? You not

know dat our great countryman, General Badian-Powell, arrive to-day, so we all go welcome him." Even more interesting are the na-

tives of Montserrat, the little island

Lord Frederic Hamilton once went ashore there. He was greeted by a the way your Honour will not be getting wet, for them back-seas are mighty troublesome.'

The brogue was due to the fact that the Negroes naturally learnd English in the fashion in which their masters spoke it. Cromwell had deported many Irish to the island

While sailing down the Volga, in Russia, writes Lord Frederic Hamilton in his book "Here, There, and Everywhere," the chief engineer of the boat—a burly, red-headed, redbearded man-came up and began explaining things. Lord Frederic could talk Russian quite freely, but the technicalities of marine engineering were rather beyond him. He stumbled lamely along somehow until a small Gives you comradeship with kings. red-haired boy came in and in the the engineer:

## Too Much Red Tane

A train was having a long halt at small Indian station and an Anglo-Indian, who had some official connection with the East Bengal State Railway, spoke about it to the immensely pompous native stationmaster. The latter asked the white man to enter a complaint in the official book. The Anglo-Indian was conducted through long passages to the station-master's office, where a strongly-worded com-

plaint was lodged. "And may I ask," questioned the irate business man, "when you mean to start this infernal train?"

"Oh, the train, sir, has already departed these five minutes," answered the bland native.

The last frontier telegraph post in India is a terrible place of captivity for white people, but the British sergeant and four privates who were in charge of it were high-spirited. The men had notices stuck up in the deserted place: "This way to the swings and boats," "The public are requested not to walk on the newly-sown grass,"

in Ceylon. Lord Frederic Hamilton was present at the uncovering of the tooth, a most intricate ceremony. There were seven cases, and in the

piece of ivory, which was readily accepted by the Buddhists. The seventh case was made in Bond Street, Lon-

Another story concerns a little white Bermudian boy who had never seen the motherland and was brought on a trip by his father. As the ship was passing Cowes the boy said: "Do Johnny.

you mean to tell me. Daddy, that the people living in these queer houses in this odd country are really human beings like us, and that they actually have human feelings like you and

#### A Flaw in His English

The Chinese secretary to the Gov ernor of Hong Kong prided himself on his accurate English. Asked about certain paper, he said: "I placed it the second business-hole on your Excellency's desk."

"Pidgin" means "business," and Pidgin English" is really "business English." The secretary considered it vulgar to use the term "pigeon-hole." A young Guardsman, accompanied ord Frederic Hamilton on a voyage to Jamaica. "The first night the Guardsman, who had never been in the tropics before, rushed into his "I have drunk companion's room. nothing whatever," he faltered, "but I must be either very drunk or else mad, for I keep fancying my room is full of electric lights." These turned out to be Jamaican fireflies, which are peculiarly brilliant.

The earthquake at Kingston in 1907 destroyed the whole town. As soon as it was over a rough-looking shanty was erected and a sign proclaimed it was a steam-bakery. The names over the door were two Scottish ones

A woman shopper in Jamaica asked the black forewoman at the counter if she had any silk stockings, either pink or flesh-color.

"Very sorry, madam," was the re ply, "we hab no pink silk stockings, but we hab plenty of flesh-colored taking down as she spoke a great bundle of black silk stockings.

Another story told by Lord Frederic Hamilton concerns a Sussex shepherd who, when ill, begged the vicar to read to him the hymn, "The roseate hues of early dawn." One day he said, 'I fancies myself on the downs again and can just see 'them rows of ewes at early dawn'!"

## Humbug.

When you say that something is "all humbug," do you know what you mean?

This expression had its origin during an European war, when many false reports were circulated in Hamburg. It became customary for anyone wishing to signify his disbelief of a statement to say, "That is Hamburg," and so the word "humbug found its way into our language.

When we say that something is "not worth a rap," most of us imagine that reference is made to a rap of the knuckles. The real origin of the phrase dates from the time of George I., when the "rap" was a counterfeit coin which was frequently passed off for a halfpenny but which was really worth nothing.

When we speak of a "baker's dozen" we are recalling the time when bakers were fined so heavily for giving short weight that they threw in an extra loaf in order to be on the safe side.

## Canada's Pension List.

"Try our famous shilling teas," and "Try our famous shilling teas," and "All season tickets must be shown at the barrier."

The Tooth of Buddha is held seared distance of Soldiers' Civil Re-estab.

The Tooth of Buddha is held seared distance of Soldiers' Civil Re-estab. 25,413 wives, 34,721 children and 178 writing known as Indian syllabic making light of authority, he took seventh, composed entirely of rubies pensioners had accepted a final pay-quickly, and it is read and written by

# Animals That Use Bluff

s unable to defend itself against its foes seeks safety in bluff, an art high-

ly developed in many animals. Take a porcupine, which is one of the better blusterers, and observe it when its enemy approaches. Not only does it turn itself into a living chestnut burr, but it also rattles its quills against one another to proclaim how impregnable it is, and at the same time to hearten itself up a bit. When it shivers with fright the same rattling takes place, and deludes its enemies.

A lizard, which is common in Australia, and has a frill like an Elizabethan collar, is another clever brag-When attacked, it starts comical performance, opening its frills and raising itself on its haunches. Its front raised as high as pos- is detected it falls limp and it sible, it sinks its head between its goes into convulsions of terror. shoulders until it looks like a miniature umbrella.

When in danger, the opossum pretends it is dead, falling down and curl-ing itself up. You may roll the creature about with your foot, explore the pouch, pick it up and carry it by its tail, offer it almost any indignity, and it will, in most cases, neither resist nor complain. But if you take your eyes off it as it lies upon the ground t, will jump up and scuttle away.

An owl and various other birds throw their wings forward and use them well in a struggle, but one—the nagnificent Argus pheasant—spreads them in front of him. This not only magnifies his appearance, but serves as a shield in the combat that may not be avoided always.

The wings form such a screen in front of the bird that it can withdraw ing a most comical appearance. its head altogether behind it, and then some altogether unexpected place.

Tactics of this kind are said to be the secret of the extraordinary sucrica has in killing snakes, writes Mr. mor.

Almost every bird and beast which Ernest Ingersoll in his book, "The Wits unable to defend itself against its of the Wild." The birds advance on the snake, and with their wings outstretched proceed to annoy the reptile. As soon as the snake strikes at the feathers the birds close in and violenty peck the foe with their long, sharp bills, quickly withdrawing again when the snake lets go. This they repeat until the snal w s dead.

Most harmless of the reptile braggarts is the hog-nosed snake, which can really hurt nothing bigger than a mouse or a fledgling sparrow.

It tries to inspire terror by swelling out its head and neck to twice their size by expanding his ribs. Then it blows and hisses and makes believe it is the ugliest sort of viper—and, as a rule, succeeds. But if it sees its bluff is detected it falls limp and literally

Quite as clever in its way is the caterpillar of the sphinx moth-a slow, fat, green worm. It has no armor or spines or poison or ability to defend itself, but, the instant anything approahes it, at once it rears up and wags its horned head. In this way it looks so formidable that few of its enemies have the nerve to tackle it.

Some fish are very good "bluffers," particularly the tribe of globe fish or porcupine fish.

These fish when quiet look much like others, except that they have a rough, leathery skin instead of a scaly one. When alarmed, the globe fish changes completely. It sucks in water by rapid gulps until it swells into a ball studded with stiff spikes.

In this condition it rises to the surface of the water and spins and bobs about, giving queer grunts and makanother fish takes the little fellow into strike through at its antagonist in its mouth it spits it out immediately as something horrible. In reality, the spines of the globe fish would do no harm, but the little fellow succeeds cess the ground hornbill of South Af- in life as well as if he wore a real or-

### Love Beside the Fire.

The pride of autumn fades away on wooded vale and hill.

days are growing grayer and the nights are growing chill, hey for home, and happy ever and joys that never tire, face- the worst that winter

brings, with love beside the fire. O, sweet as youth the springtime was, and fair were summer's bowers, gaily flowed the pagentry of autumn's golden h

With sadness from the hills we sav their sunlit days retire winter brings us back again to love beside the fire!

So bolt the door against the blast, and start the cheerful blaze, let us sit, sweetheart of mine

and talk of olden days. Of days when first you woke in me dream of young desire, When yet I hardly dared to hope for

love beside the fire! -Denis A. McCarthy.

## Montcalm.

He heard a firing in the early morn, And lo! the Plains of Abraham along Was stretched a deep red line. He

heard no song, only saw, where quiet grass and thorn

Had been, an army strong, moving in scorn

Of all his batteries; a scarlet throng Of fighting, resolute men, who knew nor thong. Nor clogging fear; men that were Bri-

tish born. O warrior brave, O faithful son of

France, Who met, unquelled his hour, without a qualm! Snatching from black defeat and re-

creant chance. Triumph unstained, rich - touched with victory's balm:

Wrenching from Death, in direct circumstance, deathless name that fills the

world: Montcalm. -Anna Durie. and rolling stock.

#### Millions of Trees for the Prairies.

The Dominion Government has always been aware of the necessity for encouraging tree culture on the prairies, but it was not until 1901 that a really definite and practical scheme for assisting settlers in this work was put inte operation. It was in that year that the first distribution of trees was made under the co-operative scheme of the Forestry Branch of the Interior Department. From a small beginning the distribution of trees from the nurseries at Indian Head and Sutherland has grown until it now averages about five million seedlings and cuttings each season, half of which are planted in Saskatchewan, and the balance in Alberta and Manitoba. As a consequence of this distribution, we now find in all parts of these provinces examples of excellent farm shelter-belts. Norman M. Ross, Dominion Forest Nursery Station Indian Head, Sask.

## About the Same.

An old gentleman boarded the tramcar, and, luckily finding a seat, sat down next to a friend. He nodded pleasantly, paid his fare,

and then said genially: "Well, what do you think of the veather?"

"Oh, horrible!" said his friend. "And how's your wife to-day?" said the old gentfeman

"Oh, about the same!" was the re

## Irish Chivalry.

Two Irishmen had a fight. the scrimmage Pat lost his glass eye Terry became frightened and stopped fighting. Picking up the pieces he handed them to Pat, saying: "Sure, Pat, an' I didn't know ye wore a thing like that or I wouldn't a' hit ye."

"Oh, begorra, an' don't be worryin' about a thing like that, Terry," replied "Sure an' I couldn't see very well out o' the thing annyhow.'

"Garage" Once Meant Boathouse. "Garage," now used exclusively as a name for the housing of vehicle was originally used in France to denote a place for keeping boats

# Romantic Tale of a Forestry Poster

fire warnings in about sixteen different Up to June 30th, 20,126 additional the Indians. The Indians learn it very dians, who smiled in a curious

The Forestry Branch of the Depart- lick off the ink because of its salty ment of the Interior, Canada, issues taste, but, generally, men and animals leave them alone. One conscientious languages and dialects. These notices lem to solve about posters. One postranger, however, recently had a probare nailed to trees along trails and at er on his beat, printed in Indian syl-Canada's Pension List.

Canada's annual pension list, in rewho have to do with the forests, they faced, but it was partly detached and, spect to the late war, amounts to \$30, constitute one of the greatest factors on turning it over, the back was seen 802,608 payable to 50,287 disabled sol- in forest protection. They are always to be covered with syllabic writing lishment. They include allowances to the existence of a wonderful system of ing Indians to disregard fire laws, or parents of disability pensioners and script, an invention of a missionary down the poster and showed it to 16,142 children of dependent pension- and used all over northern Canada by several leading men of the band of Inseventh, composed entirely of rubies and diamonds, reposed the tooth.

The original tooth was stolen and destroyed by the Portuguese in 1315, but a new booth was made out of a piece of ivory, which was readily ac-Johnny Was Dead Right.

The teacher had been telling her class about the rhinoceros family.

The teacher had been telling her class about the rhinoceros family.

The teacher had been telling her class about the rhinoceros family.

The teacher had been telling her down or deface a fire notice and this dian swain, who being without writing materials had taken this means of administration. Now name some things," she said, fire rangers, and is generally observed dressing the object of his affections. "that are very dangerous to get near to, and that have horns."

"Automobiles!" promptly answered for the glue it contains, and sometimes a moose or a strayed steer will and all lived happily ever after.