

SOURCES OF CAR NOISES SHOULD BE LOCATED AT ONCE

Can the people in your neighboryour machine is stolen. But the clat- frame and rattling part. This keeps bering noises that some autos give it taut. out certainly do not add to the pleasure an owner ought to get out of driving and they do not make for peace in the neighborhood.

There is no end of noises which may develop from the chassis of a to make the looseness audible. It can ishly moving in a narrow rut of soulcar and make it clank, clatter and be overcome by having a new bolt put click like a mowing machine as it in, and prevented by keeping the bolts ideas or original thought. goes over the highway. Often they well lubricated. are extremely difficult to locate, being at times so obscure as to defy detection even by an expert automotive mechanic.

which developed a sharp click when- not so hard to find, ever it was started forward or backward. It ran quite a long time before due to tools being thrown loosely into as it comes along. And today we have it was possible to discover just what the tool box, and sometimes from the so many toys with which to amuse and where it was. It was somewhere body bolts having become loosened. ourselves that we have almost forgot in the back, but so hidden as to defy The lamps occasionally jolt loose and ten how to play, detection. The rear axle was of the the license plate bracket is sometimes floating type, the construction in so loose that it is audible as well as It is the opposite of toil, and that is which the driving shaft is connected visible. to the hub of the wheel by a number of flutings on the shaft, into which broken gear teeth and other broken corresponding projections of the parts, and sometimes these broken flange fitted. These had become worn teeth, loose nuts, bolts or pins in gear and allowed sufficient play to cause

## Trouble Detected by Feeling.

By walking alongside of the rear wheel while the car was being started and stopped it was decided that the sound came from the hub of the wheel. The hub cap was removed, and by placing the finger on the hub flange and end of shaft at the same time the play was detected by the sense of feeling, though it was hardly visible to the eye. The trouble was overcome by having the shaft welded to the flange.

There have been cases where the wheels were keyed on and where the keys had acquired sufficient play to cause a continuous knocking, especially when the machine was being driven at low speed. This sort of knocking is more likely to occur with the four-cylinder, slow-speed engine that with the high-speed, many cylindered type.

A mysterious knock may sometimes be traced to the torque rod, when it becomes loose at the forward end, or to worn torque tube bearings, and in some cases the bolts fastening the torque rod to the rear axle become loosened or worn, causing a knock, especially when going over bumps or dropping into holes.

The brake rods become worn and set up a continuous clatter on rough dry period." roads, and this noise is accentuated if the tires are kept inflated at too high pressure. As a matter of fact the car owner has the choice between worry if we never got any water at the greatest life for his tires and ac- all."

indications of the successful building

up of a national fur market as have

their inauguration in the spring of

1920 were exhibited. More than one

million dollars worth of furs, in the

main the product of Canadian traps

and ranches, were disposed of, the

high quality of the product arousing

much comment, and the prices, in the

face of general conditions, being con-

The significant feature of this sale,

as of past sales, most pleasing and

encouraging to the national movement

to build up a Canadian fur market

for Canadian furs, was the keen in-

ternational interest evinced in the pro-

ceedings, buyers having arrived at

Montreal from London, Paris, New

York and most of the fur centres on

both continents. Skins, though in the

main a Canadian product, had also ar-

rived from all parts of the world,

there being consignments from the

Southern United States and some hav-

ing even travelled from far off

Afghanistan by way of the Khyber

over 1,000 miles, and thence to Mont-

sidered very satisfactory.

Canada's Fur Auction Sales

companying rattles and discomforts and riding at a sufficiently low pressure to subdue these noises and make life in a car worth living. Of course, hood tell when your car is passing there will be an attendant higher wear their places, even in the night, by its of tires. Where the wear cannot be various and sundry rattles? A distaken up by adjustments or using new tinguishing rattle of a car might be bolts or pins, often the rattle may be of value in locating the thief in case ended by wiring a spiral spring to the

## Keep Bolts Lubricated.

Worn spring shackle belts will not ordinarily cause knocking or rattling, the rebound of the body is sufficient

Worn steering-knuckle pins and tierod bolts will sometimes be found responsible for knocks and rattles in the terests and little experience. front end of the car. The remedy is

There are other knocks due to or differential case become wedged between the gear teeth and cause a knocking that is not hard to locate,

albeit rather expensive to repair. And then there are the knocks and rattles from the hundred or more accessories which are attached to the chassis of many cars and which, soon-

er or later, develop defects and noise. The up-to-date, well-designed car in perfect shape is practically noiseless, and if a knock or rattle develops it indicates that something is worn or out of adjustment, and needs attention. The owner who takes care to have all parts properly lubricated and kept tight need fear none of these annoyances, and proper attention means lack of annoyance when out touring, while slovenly habits will advertise themselves to everyone along road.

## It's Ne'er So Dry.

An old lady was sitting in an English railway compartment reading her newspaper.

Suddenly she put the paper down. took her spectacles from her nose, and looked around.

"Drought, drought, drought!" she speaking to the young girl travelling with her. "There's nothing in the paper except the drought!"

"But, mother," answered her young companion, "we have had an abnormal

"Yes; but why worry about it?" replied the old lady. "As long as I could get a cup of tea, I should never

# THIS LIFE IS WHAT

## THEREFORE AVOID IMI-TATION.

## Think and Create for Yourself. It Will Add Immeasurably to Your Enjoyment.

"How little we make of life considering what it offers," said a friend of mine recently.

That is perfectly true writes Geoffrey Rhodes. Most of us pass our time in a mechanical round of trivial interests that we magnify to fill our thoughts and days. The big crowd of but when going over bumps or holes us live an involuntary existence hardly requiring any original thought, sheepdestroying routine; devoid of new

> Instead of making life a joyous pilgrimage, we allow it to degenerate into a tedious journey, affording few in-

It may be a fact that there is noth-Such was the trouble with a car obvious and the location of the noise ing new in this old world of ours, but all the same the old truths have to be In addition to these we have rattles freshly explained to each generation

Play is not the counterpart of work. quite another thing.

### The Way to Your Better Self.

No one is expected to like toilsome labor. The only benefit we get from our elaborate machinery is that it takes the drudgery off one's shoulders. But work is what gives the zest to play. If all work and no play makes Jack a dull boy, all play and no work is infinitely worse

We are surrounded by opportunities for enjoyment for ourselves and our fellows. All we have to do is to take advantage of them.

We all crave for the same thing, only some call it happiness, some health, some wealth. If we take the trouble to define our wants we shall find that they all come to the same thing. The millionaire only hangs on and eliminate the rubbish. to his money-bags because he can use them to procure health and happiness. If he goes about the job intelligently he is quite as sensibly employed as the poorer man saving a few dollars to take his family on a holiday. May they both be successful!

After all, what does the magic word success itself mean? All these terms so much in use are purely relative in their interpretation.

I may be fairly successful at writing an article for a newspaper, but I am sure that I should be a hopeless failure on the Stock Exchange. I know a man with a big banking account who has been what is called successful in business; but he is hard put to it to express himself clearly in half a dozen lines on a postcard. He would cer-

tainly not be a success as a journalist. We all have our little triumphs and our little failures; stepping-stones to our better selves.

Indeed, what is sport but placing obstacles in our own path, just for them? That is the spirit to cultivate. Enterprise, initiative, will-power, resolution, call it what you like, it is the same, the determination to face facts boldly and not timidly like a child in

## A Heritage of Wisdom.

Self-knowledge and self-government are the two requisite qualifications for the enjoyment of life on this planet. We have to remember that we live in an emotional world of opinions and not in an Aladdin's cave. And it is wow." our personal estimation of things that gives them their worth, nothing else.

He was once remarking in the Highlands on the beauty of a copse of oaks on a mountain side.

"Yes," said the laird, "but I think they would look prettier still in the corner of a banking account!"

As the duke pointed out, he felt that if the question of intrinsic value of the timber was concerned, it seemed to him that more real wealth was represented by the oaks standing on the landlord's land than a mere ink mark in an account-book. But the laird evidently thought otherwise.

After all, everything is useful to somebody somewhere. We all know that even dirt is only matter in the wrong place. Our greatest treasure is undoubtedly the noble heritage sleeping in the very drops of our blood. Deep down in our hearts and minds, beneath the fleeting fancies and ideas of the hour, lies a wealth of wisdom and experience gathered by before them, bequeathed unconsciously by them to us, their children.

All this eperience and wisdom is must give it an opportunity of rising terms to working men.

## Stories of Famous People

One of the most-travelled men in representative of the Y.M.C.A. has covered over half a million miles in every quarter of the globe, and it is his boast that he has ridden in every type of vehicle known to man, from mous author of the "Sherlock Holmes" a motor-car to the primitive carts series of detective stories. used in China.

'When I was twenty-one," he told the writer, "I became the general sectional secretary, visiting all the battle- looking person with marks of cocaine fronts and speaking to two million soldiers. Now I am going to Australia to begin another world tour."

and train smashes, and has had many other narrow escapes from death.

just been completed by Professor Sod-\$350,000 worth of radium from Czecho- tion. Slovagia to England.

There were two grammes, and during the journey they had to be guard- worthily carrying on the traditions of ed day and night against robbery. At the Brookes. He married in 1911 Munich the train was fired upon, and a Sylvia, the younger daughter of Lord bullet struck the Professor's couch.

to the surface before it can be available for use. That means we must occasionally stand aside from the noise and the bustle of existence to give ourselves time for thought.

Feeling, thinking, doing. They must all share our attention in turn if we wish to make the most of our talents. Keep Moving All the Time.

We must cease to accept our ideas from our neighbor ready made. must think things out for ourselves. It will add considerably to our enjoyment of life, and increase our mental powers to an extent almost beyond belief. To use our brains is to improve them. An old proverb says that "What we don't use, we lose." So, on the converse, what we use to advantage, we improve immensely.

Get at the why and the wherefore of everything. Don't be satisfied with hearsay evidence. Follow the scientfic plan. It is the only common-sense method of learning one's way about the world. Sift all facts given you

When at last you have the pure metal refined from the alloy, study it well and see what you make of it. It will repay you. Weigh up evidence as the baker weighs the loaf, and then you will have something definite, something useful added to your store of knowledge. Systematic thought is a bracing pastime.

A disorderly mind is like a stone in your shoe; it will give you no peace till you put it right.

When all is said and done, Life itself is the supreme proof that with all its troubles it is a gift worth hav-

Only don't mark time; always ad-

### An Odd Use for the Phonograph. Many popular ideas regarding the

cries of animals are altogether wrong. This is shown by experiment out recently by means of phonothe sake of the fun of overcoming graphs to discover the sounds which creatures really make.

It is commonly supposed that sheep "Baa." What the animals really say, according to a phonographic record, is something like "Maa." A close examination of the mouth of the sheep shows that the animal cannot form the letter "B" at all.

How many people, if asked to imitate a dog barking, would say something like "Bow-wow?" But the dog does not say this at all. On the phonograph the sound is just like "Wow-

Most people refer to the growl of a tiger. This creature does not growl The old Duke of Argyll used to tell at all. Its cry has been shown to be an amusing story in this connection. a kind of cough. This resembles a sort of "Wouf-wouf," although, as a matter of fact, it is very difficult to put the noise into words.

Two birds were tried in order to see what kind of a noise they make. Crows are said to "caw," but the sound they actually make resembles "haw." It was shown that pigeons do not "coo," the cry they utter being more like "hoo."

## Cook's Sympathy.

The young wife entered the kitchen rather nervously and, after fencing about a bit, addressed the cook thus:

"Oh, cook, I must really speak to Your master is always com- living—and the dead. plaining. One day it is the soup, the next day it is the fish, and the third day it is the joint; in fact, it is always something or other."

The cook glanced up and with feeling responded: "Well, mum, I'm sure sorry for you. It must be awful to that.'

there ready when needed: but we shop to advance loans on reasonable

The largest quantity ever transportthe world is Mr. J. J. Virgo, the world ed, the radium probably will be placed He temporarily in Oxford University. A good story is told about himself

by Sir Arthur Conan Doyle, the far

"After lecturing in New York," Sir Arthur says, "I read in the papers that 'as the author advanced to deliver his retary of the Y.M.C.A., refusing a part- lecture, a thrill of disappointment ran nership in a good firm of accountants through the assembly.' The audience to do so. During the war I was na- had expected to see a cadaverous-

injections all over him."

Just over eighty years ago James Mr. Virgo has been in shipwrecks Brooke, a young Englishman, left his home and went abroad. He arrived at Sarawak (Borneo), and in course of time was proclaimed Rajah. For A most nerve-racking journey has twenty-eight years he ruled over a territory comprising 45,000 square miles, dy, of Oxford University, who brought and with more than 500,000 popula-

> The present Rajah, Charles Vyner Brooke, succeeded in 1917, and is Fisher.

## Eye Items.

Thousands can see the same object at the same time. That seems nothing extraordinary, yet really it is a miracle! It is only possible because in the wonderful scheme of things an object throws off from its surface millions of rays in all directions. Each person, according to his position, seizes literally, on one of these rays, and travels along with it, ocularily, to the object.

The eye is pained by a sudden light, Why? It is because the nerves of the eye are hardened with rays before the pupils have had time to contract and receive them.

Again, if we have a well-lighted room and go into the street, everything seems much darker than it actually is. That because the eye pupils, contracted indoors, have not had time to dilate and catch the lesser rays outside. "Getting used to the dark" is merely waiting for the pupils to dilate.

Cats, Owls, and Tigers see in the dark because they have the power of enlarging at will the pupils of their eyes, and thus collect all the scattered rays of light there are, which are present even in "darkness."

Do we know why we can see ourselves in a mirror? It is not because the mirror is a mirror, but because the rays of light from our face, striking against the glass, and unable to pass through it because of the "backing," are thrown back again to our eyes. They rebound, in short.

Finally, with two eyes we apparent ly ought to see double, and we do! But the two images fall on the two retina simultaneously, and are combined in one. There's more in the eye than one would think!

## Can Bees Tell the Time?

A French expert declares that bees are able to tell the time.

This ingenious Frenchman conducted an interesting experiment. He began by breakfasting in the open air at seven o'clock, partaking of light preserves. Precisely at ten o'clock the table was cleared. At the midday meal no sweets were served; but at four o'clock in the afternoon there was a light lunch with sweets.

Within a week all the bees in the neighborhood seemed to get wind of what was going on, for they came in such swarms that they covered the table, and the meals had to be served indoors.

For weeks the visits of the bees were as regular as clockwork. They omitted the midday meal because no sweets were served then.

Subsequently a jar of jam was placed in a window for the first five minutes of every hour during the day. Within a short time the bees made hourly visits with such regularity that the time of day could be judged without reference to a clock.

## Barbers as "Best Men."

In India haircutting seems to be the least important of a barber's duties. Because of his numerous lines of trade he is in constant demand.

On the occasion of a birth the Hindu barber is the man employed to carry the eventful news to relatives, and at a funeral he shaves the heads of the

The Hindu hairdresser has no shop, and, unlike our barbers, he displays no poles, signs, or symbols. He can be seen strolling near the bazaars with a small bundle under his arm or carrying a little bag.

He bores the girls' ears and noses our parents and their parents again have to live with a gentleman like for the various rings which are worn, while he will undertake almost any surgical operation. Besides births Chili has opened an official pawn- and deaths, he attends marriages. At a wedding this busy barber acts are "best man."

real by parcel post. The pelts offered for auction at the sale comprised practically every animal trapped or farmed for its fur. There were 146 silver fox pelts, mostly from Prince Edward Island, sold at foxes sold at figures ranging round world's best buyers.

During the month of September the | \$40. A total of 24,613 skunk skins, fourth sale of the Canadian Fur Auc- mostly of Canadian origin, found buytion Sales Company took place at ers at prices as high as \$5.60, a big Montreal, when the same gratifying advance over the spring prices. Fifteen thousand American opossum and 6,994 Persian Lamb skins were featcharacterized the previous sales since ured in the sale; there was a large aggregation of otter and beaver, whilst 3.423 red fox skins brought an average of well over \$30. A collection of mole skins totalled fifteen thousand.

In the opinion of the management the proceedings of the auction were successful beyond expectation. Prices for the better grade of furs were considerably higher than in the spring whilst medium grades maintained their standard. Beaver, otter, fisher, marten, mink and lynx sold uniformly at twenty per cent. in advance of spring prices; racoon had advanced ten per cent., muskrat thirty per cent., and bear as high as fifty per cent. Otter sold for around \$45, lynx \$45,

and bear \$22. The Montral and Winnipeg fur sales, as periodical events of international interest, may now be considered to be firmly established, and in the secure standing she has achieved, the Dominion has assurance of permanence and increasing importance for Pass to India on camels, a distance of her national fur market. As the world's premier fur producer, both in quality and quantity, Canada has too long lost much of the accruing revenue by permitting the fur crop to go to foreign markets for auction, and the success of her first fur sales evidences that from the long established various prices up to the record of fame of her products she has no dif-\$380, whilst a small selection of white ficulty in attracting to her sales the