

SOURCES OF CAR NOISES SHOULD BE LOCATED AT ONCE

Can the people in your neighborhood tell when your car is passing their places, even in the night, by its various and sundry rattles? A disyour machine is stolen. But the clattering noises that some autos give companying rattles and discomforts out certainly do not add to the pleas- and riding at a sufficiently low presure an owner ought to get out of drivin the neighborhood.

There is no end of noises which click like a mowing machine as it goes over the highway. Often they are extremely difficult to locate, being at times we observe the highway in the state of phis, often the rattle may be ended by wiring a spiral spring to the rattle may be en ing at times so obscure as to defy detection even by an expert automotive

Such was the trouble with a car which developed a sharp click whenever it was started forward or backward. It ran quite a long time before ward. It ran quite a long time before be overcome by having a new bolt put it was possible to discover just what in, and prevented by keeping the bolts and where it was. It was somewhere in the back, but so hidden as to defy to the hub of the wheel by a number obvious and the location of the noise of flutings on the shaft, into which not so hard to find.

Trouble Detected by Feeling.

wheel while the car was being started visible. and stopped it was decided that the sound came from the hub of the wheel. broken gear teeth and other broken placing the finger on the hub flange and end of shaft at the same time the or differential case become wedged beplay was detected by the sense of tween the gear teeth and cause a come by having the shaft welded to

wheels were keyed on and where the chassis of many cars and which, soon-keys had acquired sufficient play to er or later, develop defects and noise. eause a continuous knocking, especially when the machine was being perfect shape is practically noiseless, driven at low speed. This sort of and if a knock or rattle develops it knocking is more likely to occur with indicates that something is worn or the four-cylinder, slow-speed engine out of adjustment, and needs attenthat with the high-speed, many cylin-

be traced to the torque rod, when it becomes loose at the forward end, or means lack of annoyance when out to worn torque tube bearings, and in touring, while slovenly habits will adsome cases the bolts fastening the vertise themselves to everyone along torque rod to the rear axle become the road.

An Odd Use for the

Phonograph.

out recently by means of phono

shows that the animal cannot form

creatures really make.

the letter "B" at all.

tiger. This creature does not growl at all. Its cry has been shown to be a kind of cough. This resembles a sort of "Wouf-wouf," although, as a Many popular ideas regarding the cries of animals are altogether wrong. matter of fact, it is very difficult to This is shown by experiments carried

put the noise into words. Two birds were tried in order to graphs to discover the sounds which see what kind of a noise they make. Crows are said to "caw," but the It is commonly supposed that sheep sound they actually make resembles What the animals really say, "haw." It was shown that pigeons do according to a phonographic record, is not "coo," the cry they utter being more like "hoo." something like "Maa." A close ex-amination of the mouth of the sheep

as a reinforcement of concrete piles is infinitely worse.

for use along a Chinese railway. Four

We are surrounded by opportunities How many people, if asked to imitate a dog barking, would say some-thing like "Bow-wow?" But the dog strips of green bamboo, tied together for enjoyment for ourselves and our does not say this at all. On the phono-graph the sound is just like "Wow- also of bamboo, are placed at each advantage of them. corner of the pile and run lengthwise Most people refer to the growl of a with it.

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 roads, and this noise is accentuated if the tires are kept inflated at too tinguishing rattle of a car might be high pressure. As a matter of fact of value in locating the thief in case the car owner has the choice between the car owner has the choice between the greatest life for his tires and acing and they do not make for peace life in a car worth living. Of course there will be an attendant higher wear of tires. Where the wear cannot be taken up by adjustments or using new may develop from the chassis of a car and make it clank, clatter and bolts or pins, often the rattle may be

Keep Bolts Lubricated.

Worn spring shackle belts will not ordinarily cause knocking or rattling, but when going over bumps or holes the rebound of the body is sufficient to make the looseness audible. It can well lubricated.

Worn steering-knuckle pins and tie detection. The rear axle was of the rod bolts will sometimes be found refloating type, the construction in sponsible for knocks and rattles in the which the driving shaft is connected front end of the car. The remedy is

corresponding projections of the In addition to these we have rattles flange fitted. These had become worn due to tools being thrown loosely into and allowed sufficient play to cause the tool box, and sometimes from the body bolts having become loosened The lamps occasionally jolt loose and the license plate bracket is sometimes By walking alongside of the rear so loose that it is audible as well as

There are other knocks due to The hub cap was removed, and by parts, and sometimes these broken teeth, loose nuts, bolts or pins in gear feeling, though it was hardly visible knocking that is not hard to locate, The trouble was over- albeit rather expensive to repair.

And then there are the knocks and rattles from the hundred or more There have been cases where the accessories which are attached to the

rey Rhodes. Most of us pass our time in a mechanical round of trivial The up-to-date, well-designed car in interests that we magnify to fill our thoughts and days. The big crowd of us live an involuntary existence hardly requiring any original thought, sheep ishly moving in a narrow rut of soul destroying routine; devoid of new tion. The owner who takes care to ered type.

A mysterious knock may sometimes have all parts properly lubricated and kept tight need fear none of these ideas or original thought.

Instead of making life a joyous pil grimage, we allow it to degenerate in to a tedious journey, affording few in terests and little experience.

It may be a fact that there is nothing new in this old world of ours, but all the same the old truths have to be freshly explained to each generation as it comes along. And today we have so many toys with which to amuse ourselves that we have almost forgot ten how to play.

Play is not the counterpart of work It is the opposite of toil, and that is 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 Bamboo has been found successful Jack a dull boy, all play and no work

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 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!

so much in use are purely relative in

an article for a newspaper, but I am sure that I should be a hopeless failure on the Stock Exchange. I know a 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 certainly not be a success as a journalist.

our better selves.

Indeed, what is sport but placing

obstacles in our own path, just for the sake of the fun of overcoming 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.

gives them their worth, nothing else. The old Duke of Argyll used to tell

78.5 miles per hour. an amusing story in this connection.

Stories of Famous People

One of the most-travelled men, in the world is Mr. J. J. Virgo, the world representative of the Y.M.C.A. He 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 a motor-car to the primitive carts used in China.

'When I was twenty-one," he told the writer, "I became the general sec-retary of the Y.M.C.A., refusing a partnership in a good firm of accountants to do so. During the war I was national secretary, visiting all the battlefronts and speaking to two million Now I am going to Australia to begin another world tour."

Mr. Virgo has been in shipwrecks and train smashes, and has had many

other narrow escapes from death. A most nerve-racking journey has just been completed by Professor Soddy, of Oxford University, who brought \$350,000 worth of radium from Czecho-

Slovagia to England. There were two grammes, and dur-ing the journey they had to be guarded day and night against robbery. At Munich the train was fired upon, and a bullet struck the Professor's couch.

The largest quantity ever trassported, the radium probably will be placed temporarily in Oxford University.

A good story is told about himself by Sir Arthur Conan Doyle, the famous author of the "Sherlock Holmes" series of detective stories.

"After lecturing in New York," Sir Arthur says, "I read in the papers that as the author advanced to deliver his lecture, a thrill of disappointment ran through the assembly.' The audience had expected to see a cadaverouslooking person with marks of cocaine njections all over him."

Just over eighty years ago James Brooke, a young Englishman, left his home and went abroad. He arrived at Sarawak (Borneo), and in course of time was proclaimed Rajah. twenty-eight years he ruled over a territory comprising 45,000 square miles, and with more than 500,000 popula tion.

The present Rajan, Charles Vyner Brooke, succeeded in 1917, and is worthily carrying on the traditions of the Brookes. He married in 1911 Sylvia, the younger daughter of Lord Fisher.

Cured by Fruit.

During the Seven Years' War only fifteen hundred saflors and marines were killed in battle, but the loss from disease was close upon 134,000, and nearly all these died of scurvy.

It is only by looking at records such as these that we can realize what a terrible thing scurvy was to our forefathers. From the sixteenth to the eighteenth century it was killing its millions all through Europe. It was, indeed, a far greater scourge than yel low fever or cholera to-day.

Nowadays scurvy is almost un known. It exists only in very remote mining camps where men are cut off for many months at a time from civilipresented by the oaks standing on the zation and have to live entirely on

tinned or meat food.

Scurvy causes bleeding of the gums and nose. The limbs swell, the teeth fall out, the sufferer collapses and

now known that scurvy is It is caused by being deprived of fresh vegetable food, but even people so situated that vegetables are beyond their reach need fear nothing so long as they have plenty of lime-juice.

It was the importation of the lime from the West Indies into Europe that killed scurvy. All ships likely to be a ong time at sea have to carry limejuice and to allow the men a certain amount.

All this eperience and wisdom is there ready when needed: but we Indeed, on a whaling ship, or a sealer, the skipper generally sees to it, personally, that each man takes his 'whack" daily.

The lime, which is a small kind of

emon, is medicinally the most valuable fruit in existence. It not only prevents scurvy, but, if taken in time, all share our attention in turn if we cures it; and it will also cure many forms of blood-poisoning, if taken in sufficient quantities.

As many as twenty limes a day are ometimes prescribed, and the cures effected are amazing

Choosing Brides for Turks. Marriage in Turkey is a very prosaic affair, it being in a majority of cases quite a business matter. When a man wishes to wed, his parents obtain' a list of houses where eligible

girls are to be found, and the mother everything. Don't be satisfied with hearsay evidence. Follow the scientific "What can your "What can your daughter do?" she It is the only common-sense asks, whereupon embroideries, carmethod of learning one's way about pets, rugs, etc., are exhibited as evithe world. Sift all facts given you dence of the girl's handiwork. If these are approved by the mother, she takes When at last you have the pure the goods home to her son and induces metal refined from the alloy, study it him to marry the clever young wo-

well and see what you make of it. It man. will repay you. Weigh up evidence as If, on the other hand, she does not the baker weighs the loaf, and then think much of the work, she makes you will have something definite, some diplomatic excuse, and passes something useful added to your store on to another house on the list. If, however, the young man is not liked by the girl's parents, the mother is advised to seek elsewhere.

A disorderly mind is like a stone in your shoe; it will give you no peace In Sweden and Norway, a legal marriage at one time was not allowed to be solemnized until both parties had self is the supreme proof that with produced certificates stating that they all its troubles it is a gift worth havbore genuine vaccination marks.

Some of the older houses in Holland have two doors, which are used for marriages and deaths only. By one door the bride and groom enter, and through the other they are carried out when dead.

Ropes from Bananas.

Though Manila rope is not so reliable as hemp, it is much cheaper, and for certain purposes it is better. It is used on board ship and in numerous other ways. The name comes from the chief town of the Philippine Islands, where it is made.

The rope is made entirely from the stalks of the leaves of a species of while he will undertake almost any banana. These stems contain a surgical operation. Besides births banana. coarse, tough fibre which native laborers extract by hand.

When they have been cleaned, dried, and sorted, the fibres are ready to be sent to the factory. It is the finest of them that make the best rope. The coarser fibres are not sufficiently flex ible to stand the twisting and bending that must be endured. Machinery spins them into a kind

of yarn not unlike coarse wool. The paste thus formed is filled into molds and exposed to heat, whereby the coninto a strand. Three or four strands tents undergo slight shrinkage and actheir journeys travel at a speed of twists them together into a great rope be thereupon put into cans, which are that will hold a battleship.

Eye Items.

Thousands can see the same object it the same time. That seems notising 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 They rebound, in short.

Finally, with two eyes we apparently ought to see double, and we do! But the two images fall on the two retinae 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 pre-serves. 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 weets 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 living and the dead.

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 for the various rings which are worn, and deaths, he attends marriages. At a wedding this busy barber acts as

New Canned Food.

A newly patented kind of food, put up ready for the housewife's instant use is prepared by mixing fine-chopped meat with milk and a little flour. The and exposed to heat, whereby the conquire a sort of "skin." The molded masses are thus easily dropped out, to sterilized and sealed.

Canada's Fur Auction Sales

During the month of September the \$40. A total of 24,613 skunk skins, fourth sale of the Canadian Fur Auction Sales Company took place at Montreal, when the same gratifying advance over the spring prices. Fifindications of the successful building teen thousand American opossum and ap of a national fur market as have characterized the previous sales since 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 considered very satisfactory.

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 international interest evinced in the proceedings, 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 arrived from all parts of the world, there being consignments from the Southern United States and some having even travelled from far off Afghanistan by way of the Khyber Pass to India on camels, a distance of over 1,000 miles, and thence to Montreal 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, soid at

skins totalled fifteen thousand.

and bear \$22.

The Montral and Winnipeg fur to be firmly established, and in the Dominion has assurance of perman ence and increasing importance for her national fur market. As the 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 evi dences that from the long established various prices up to the record of fame of her products she has no dif-faction, whilst a small selection of white

mostly of Canadian origin, found buyers at prices as high as \$5.60, a big 6,994 Persian Lamb skins were featured 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

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,

sales, as periodical events of international interest, may now be considered secure standing she has achieved, the world's premier fur producer, both in quality and quantity, Canada has too fones sold at figures ranging round world's best buyers.

rom our neighbor ready made. must think things out for ourselves. It will add considerably to our enjoy nent of life, and increase our mental powers to an extent almost beyond beief. 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 plan.

and eliminat

bracing pastime.

till you put it right.

ing.

vance!

them."

and the worst is yet to come

He was once remarking in the High-

lands on the beauty of a copse of oaks

they would look prettier still in the

if the question of intrinsic value of

the timber was concerned, it seemed

to him that more real wealth was re-

landlord's land than a mere ink mark

in an account-book. But the laird evi-

After all, everything is useful to

omebody somewhere. We all know

that even dirt is only matter in the

wrong place. Our greatest treasure

sleeping in the very drops of our

blood. Deep down in our hearts and

and ideas of the hour, lies a wealth

of wisdom and experience gathered by

our parents and their parents again

before them, bequeathed unconscious

must give it an opportunity of rising

to the surface before it can be avail-

able for use. That means we must

occasionally stand aside from the

noise and the bustle of existence to

Feeling, thinking, doing. They must

wish to make the most of our talents

Keep Moving All the Time.

of knowledge. Systematic thought is

When all is said and done, Life it-

Only don't mark time; always ad-

Clinched It.

Aunt Jane, who was a spinster, came

to visit her sister and family of four

children. And from the very first

auntie was very much given to offer

ing advice to her sister on the way to

feed, dress and treat children gener-

ally. The sister listened in perfect

good humor, but not so Sally, her ef-

gan, "What do old maids like you and

me know about raisin' children? We

ain't never had none and a person has

to have children to know how to raise

smile. "Oh, not always, Sally," she returned. "Now take those little

chickens out there. Don't you think you know more than their mother? You feed—" But Sally interrupted

her. "Yes, ma'am, I feed them, if

that's what you mean. But I hain't

Aunt Jane smiled a tolerant

We must cease to accept our ideas

We

give ourselves time for thought.

ly by them to us, their children.

beneath the fleeting fancies

undoubtedly the noble heritage

corner of a banking account!"

lently thought otherwise.

minds.

"Yes," said the laird, "but I think

As the duke pointed out, he felt that

on a mountain side.

ALL KINDS OF BIRDS ANIMALS

FOR SALE

C. Wellington

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

That is perfectly true writes Geof-

of mine recently.

WE MAKE OF II

After all, what does the magic word success itself mean? All these terms their interpretation.

I may be fairly successful at writing man with a big banking account who

We all have our little triumphs and our little failures; stepping-stones to our better selves.

ficient helper. And frankly, Sally said so. "Look here, Miss Jane," she be-

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 our personal estimation of things that

scratch—have I?" The fastest trains in the world are said to be two on the Great Western are then placed side by side, and pass-Radway, which at certain stages of ed through the laying machine, which

never yit taught any of them