

What's Your Driving Style. I like to watch the cars go by And see the different kinds of driving; Some sit up straight with heads so

Some crouch -as on the point of div-

Some hide behind the steering wheel, Content that just the head is showing; Some look alive and keen as steel, Some hardly know where they are going.

Some signal to the cars behind. While others see to quite forget it; Some hog the road and do not mind Some try to pass—and then regret it. Some shift the gears with greatest care.

But some make such a dreadful clash-

I'm fairly driven to despair, And wonder just how much they're smashing.

And in the crowd I see each day There are some who are very grouchy And there are many who are gay, Some dress so well and some are

slouchy. And where they come from, where they go

And what they do upon arriving No one can tell; I'd like to know some, though, get the cars they're driving.

#### Home Repairing.

To the average small-car owner of limited means tires are the greatest expense of upkeep, especially if he lives in a rural district where good pikes are rare. In such a locality even a new tire will show bad cuts and jags after only a few miles of running. Loose rocks are the cause, and many roads around small towns have patches composed of this material.

Damage done by these small stones is only slightly less than that done by broken glass. The usual result to the tires is a small patch of rubber tread totally removed, or a semicircular cut leaving a flap of loose rubber. These deep cuts are the beginning of sand pockets. Deep cuts expose the fabric, which in a short time wears through, and a blow-out is the result. Cuts of this nature, unfortunately, do not look bad-not nearly so bad as many less harmful bruises and scrapes -so they are neglected. Thousands of tires are wasted this way every year.

Such cuts look formidable to owner inexperienced in making his repairs. It is useless to insert tread filler, so he sends the tire to the repair shop or lets it wear as it will. Shop vulcanizing costs from \$3 to \$5 and is entirely unnecessary if the cut

Any tread cut up to two or three inches can be quickly and successfully repaired at home with one of the small gasoline vulcanizers now on the market. Tire-vulcanizng to the uninitiated seems a difficult process It is really simple to make a thoroughly satisfactory permanent repair on any part of the casing, excepting rim cuts in the tire fabric.

The main thing is to take the cut In time. A tire that is cut through the fabric must be sent to "the shop" but if only the rubber is damaged the home vulcanizer is sufficient.

First, thoroughly cleanse the cut Then, with a sharp takes little time. penknife, trim all jagged edges and loose rubber. Next, slightly bevel the when it is screwed on.

#### How a Tape Machine Works.

Those busy little machines, which, clicking away inside their glass cases, print all the latest news on long strips of paper, are one of the marvels of the

Yet really they are quite simple. They are in two parts-one for transmitting the news an the other for reproducing it. One transmitter is capable of working any number of reproducers. At first glance, the former is not unlike a piano, with only thirty or so black and white keys. Each key represents one letter or other sign, and, on depression, completes an electric cfreuft.

This current passes over the wire to the transmitting machine, and rotates in it a wheel, on which is a com-plete alphabet of letters. Above this wheel is another, which is merely surrounded by a pad rim. Between the two wheels passes a narrow strip of paper upon which the message is go ing to be typed.

As the type wheel presses up, forcing the paper against the pad on the wheel above, hey presto! the letter required appears on the slip of paper.

Messages are not sent very fast, about five seconds being allowed between each letter, yet even at this rate can be seen messages are written in 250 different places at one and the same time, in far quicker time than ach; but every boy has a second apthey could be dispatched and received by ordinary telegraph.

we". I will be king!"

edges of the hole with the knife. Thi

gives the new rubber more surface.

The next step is to cover the entire cut with a rubber cement, made especially for vulcanizing work. At least two coats must be applied, and it is well to leave each coat dry for fifteen or twenty minutes. If there is time to spare, three coats would be even better. These should not be applied too thickly. When the last coat is dry enough not to stick to the fingers-it may be tacky but must not be wet—it is then time to apply the compound or filler

This is unvulcanized tread stock Though a small quantity is usually supplied with the repair outfit, it is better to buy it in pound or half-pound rolls from a motor accessory dealer. If the hole is large and the portion of tread to be replaced is thick, the stock may be cut into pieces roughly the size of the hole, and packed in layers. The corners and edges of the hole should be filled by cutting thin strips of the stock and pressing them into place with a toothbrush or similar strong non-metal tool.

If the compound is warmed slightly before using, it will be found more plastic and easier to handle. Do not allow the filling to protrude above the surrounding tire surface, but make it as level as possible. Slight inacurracies are not important, as the rubber will run together in the heat of vulcanizing.

All that remains now is the placing of the vulcanizer. Usually it is attached to the tire by means of two hooked bolts. Just insert a piece of waxed paper between the tread and the vulcanizer. To test the vulcanizer for correct heat, wet the finger and touch it to the top of the iron after it has been lighted about ten minutes. It should hiss at the touch.

The time required for cooking patch is frequently underestimated. It can accurately be found by experiment only. A deep hole will require half an hour or more while small holes will require proportionately less. Notice, I say a deep hole. The time of cooking should be gauged by the depth of patch, and not by the surface size.

When the vulcanizer is removed and the tire is allowed to cool for a few minutes, the rubber in the patch should be tested with the finger nail. If it is possible to leave an impression, the rubber is not cooked sufficiently If, on the other hand, it is not possible to make an impression, it has been cooked too long. If the job has been done correctly, any impression you make in the patch should not show when you remove the pressure

Rubber in a perfect repair should of course be the same consistency as enough to receive but not to retain an impression. If the patch is undercooked the vulcanizer should be re placed and the cooking continued.

There are small gasoline vulcanizers on the market ranging in price from \$2.50 to \$3.50 that will practically last forever. The only additional cost is for tread stock. Gasoline is a tured in the province was 1917, in from \$2.50 to \$3.50 that will practicalcook a large patch. As a rule, a measure is provided with the outfit. Returned out. In 1920 this had increased to 108,000 tons was turned out.

The great advantage in repairing one of the most important industries loose ends. In some cases a piece of tires in this way is that no time is in the province. tread which is not torn clear off may wasted in taking the casting from the canizing, but for holes up to an inch sufficient air let out of the tire to Federal Department of Agriculture to in diameter it is better to remove all enable it to conform to the vulcanizer

### At Sunset.

When work is almost done, I softly

Up to my tiny window where I kneel. And watch the sun in clouds of wondrous light.

Sink low upon the moors and out of

And while I watch this radiance. I seem

To lose myself completely in a dream, That carries me a million miles away, Where troubled thoughts of work can

My room becomes a bower, my house a place,
The fairest lady would be proud to

Position, beauty, worldly wealth and

power, Are my possessions for this precious hour.

Then, from my dreams I waken with

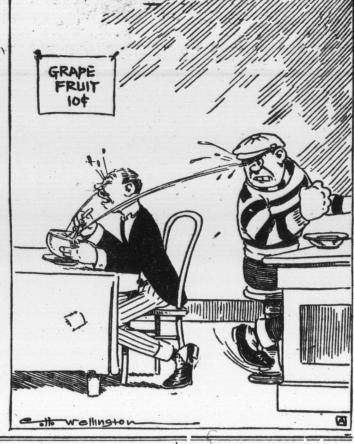
"Muvver!" A voice is tugging at my heart: Coming, dearheart," I call, and with

a smile, travel back from worth while. -Katherine Parsons

No human being has a second stompetite.

A loss of more than 85,000,000 in Say, with Balzac, in his garret, when told that in literature, which he had chosen for his calling, a man must either be a king or hodman, "Very starvation and the fall in the normal

### and the worst is vet to come



### Here and There in Canada.

The population of St. John. N.B., is estimated to be 67,050, based on the new directory, which gives 2,340 new names, an increase of 913 over last year. Last year the estimated population was 64,305.

More than one and a quarter million barrels of apples were exported from Canada last season, the greater bulk of these going to the United Kingdom, it is pointed out in a statement issued by the Department of Agriculture.

A report has reached Montreal from London, England, stating that at the Founder's Day at the Barnando's Village Home, Sir H. H. Stileman mentioned that the emigration of boys and girls to Canada, which was suspend ed during the German submarine campaign, has been resumed, and nearly children had been sent out to join the 23,000 already in the Dominion

A party representing the Hoffman Pulp and Lumber Corporation, Sydney, N.S., recently, on a tour of inspection of the company's timber holdings at Hamilton Inlet, Labrador, The purpose of the visit is to make an exploration of the territory and to take all preliminary steps which would to operations next spring. will have to be established and hous ing accommodation for a thousand men erected. The territory acquired the rest of the tire—that is, soft 148 square miles, and it is the intenby the corporation covers an area of tion to cut a minimum of 100,000 cords

of pulpwood per year. Starting in 1911 with an output of 90 tons, the chemical pulp industry in British Columbia has increased year by year until in 1920 the output reachsmall item, as two tablespoonfuls will which year 65,000 tons was turned out. tons. In 1913 the output of paper was pair work may be done in the even-ings or on rainy days, to avoid inter-tons in 1920. The value of pulp and fering with other work, although it paper production in 1920 in British Columbia was \$21,500,000, making it

> A survey will be made of the muskegs of the North this summer by the determine their agricultural possibili-The question of developing the muskegs will be fully investigated If the experiments prove successful, several rich areas will be offered to agriculturists, and the revalue to the western provinces.

# Potted Voices.

cords of her matchless voice are in demonstrate the art of the great sing- by wind but by steam.

Many young people who are interested in music, or sing themselves, ask whether Sims Reeves sang better than Thomas Burke, if Jenny Lind sang as well as Tettrazini, or whether Madame Clara Butt has as pure a contralto voice as Antoinette Sterling or Madame Patti. Old concert-goers often stick up for their early loves, but comparison is impossible, for their voices are long silent, and new ones

hold the field. But the gramophone has ended that phase. The new singers to come can be compared vocally with the singers at present holding the field. gramophone has got all the great singers "in pickle," and everybody will be able in the future, even long after they have passed away, to taste their

beautiful quality.

Yet what would we not give to be able to put Jenny Lind or Joseph Mass or Madame Patti on the gramophone and listen, as our fathers and mothers did, to their entrancing songs? would "My Pretty Jane," su sung by Sims Reeves, be valued at to-day, or "Caller Herrin'," sung by Antoinette

#### British Pearl Fisheries.

Coming down the Highland railway recently, where the line runs alongside the Tay, the writer saw two men in a boat, one of whom was leaning over the side, holding a sort of box in the water.

A friend who was with him explain ed that the men were pearl fishing. The box was a "water glass" used for eliminating the surface ripple, and so examining the bottom of the river.

When a mussel is seen, the fisher man pushes down a length of stiff thrusting it between the open shells of the fish. These close at once on the wire, and so the creature is drawn to the surface.

These mussels are of considerable size, and quite a fair proportion of them hold pearls, though only a few of these are sufficiently well shaped or lustrous to be valuable.

Yet the mere fact that pearl fishing still goes on in a good many Scottish and Irish rivers proves that it must be worth while. The principal Scottish rivers for pearl mussels are the Dee, Spey, Don, and Esk, while another centre of pearl fishery is in Ulster, in the Foyle and its tributaries.

Pearl fishing goes on regularly in all these streams, and the proceeds of the fishing are sold to local jewellers. A jeweller at Strabane gave \$40 for a pearl which was found in a small stream near the town, and plenty of pearls worth five to ten dollars each are got every season. Most of these fresh-water pearls are white, but now and then very beautiful pink ones are obtained. No special skill is required in the fishing, and amateurs and holiday-makers have almost as good chance of success as the professional fishermen.

These pearls are accumulated around a nucleus consisting of the dead larva of the distoma, The full-grown fluke inhabits the bodies of the eider duck or black duck, but the pearl mussel acts as host to the young in a certain stage of their

### Saving His Face.

A recent writer on the old-time merchant marine says that the first steamship to visit China was the Jamesina from Bombay. When she entered the Canton River and in accordance with and experiments on a large scale car-old custom had taken on her Chinese pilot at Lintin she resumed her course, proceeding under steam against wind and tide. The pilot showed no curiosisult will undoubtedly prove of great ty and asked no questions. Soon in a perfectly matter-of-course manner he began to give occasional directions to the helmsman-such directions as Although Madame Patti, the great he would have given if the Jamesina soprano, had passed her best when the had been a sailing vessel. That was gramophone came into being, yet re- too much for the British captain, and he called the pilot's attention to the existence, and were recently used to fact that the ship was propelled not

"Oh," replied the Chinese coolly. "It is a method that is no secret in some parts of the empire: it was common once, but it has now for some time fallen into disuse!'

### Modern Forest Fire Fighting.

Great as has been the advance in fire fighting methods and equipment in towns and cities in Canada in the last five years, the advance in fighting forest fires has been even greater. Dominion, provincial, and private forest organizations are now using airplanes, not the broom, my mither having left power launches, railway speeders, the broom to the eldest child. automobile trucks, and portable gasoline pumps, besides the old reliable turkey wing." horses, spades, hoes, and wet sacks in their protective work, and are calling men out to danger points by mean of telephones, heliographs, and other signalling apparatus.

### Empire's Largest Landowner.

The new Australian knight, Sir Sidney Kidman, is a self-made man, and largest landholder in the Empire. He controls over 32,000,000 acres, which Sterling, and sung as she alone could carry about a quarter of a million cat-sing 18? tle and many thousand horses.

# In An Antarctic Crevasse

Dangling helplessly for hours over a bottomless pit of ice while his arms and legs gradually froze—that was the experience of John Lachlan Cope, surgeon and biologist to the Ross party of the Shackleton Antarctic expedition.

Dr. Cope, who is one of England's nost experienced Antarctic explorers, had been leading three men over a dangerous glacier and had failed to notice a narrow crevasse that was bridged with snow. Suddenly he felt bridged with snow. Suddenly he felt time, he had to watch his hands to see the snow give way and fell headlong that they clutched the rope as he through space. But twenty feet be-low the edge the sledge harness, which he had fastened round his chest and shoulders, caught and held him Fortunately his comsuspended. panions saw him fall and immediately nade the sledge ropes fast.

Cope looked round him, The widened downward until its vasse sides disappeared from view, and below that—darkness and illimitable

"Are you all right?" came a voice. "Yes, but I can't get up; I'm hung

"Hang on then!" shouted the man "We'll make a rope ladder." With that he disappeared.

#### Airplane Efficiency in Forest Protection.

To have a small airplane, supposed ly big enough only for scouting and forest patrol work, pick up fire-fight ers with tools and supplies and transport them quickly to the scene of the fire and thus prevent a conflagration. has been the happy experience of at least two of the forest services with which the Air Board of Canada is cooperating this season. This co-opera-tion has been established by the Air Board with the federal and several of the provincial forest services. The first instance of this prompt action occurred in the Sioux Lookout district

of Western Ontario, where the Air Board co-operates with the Ontario Department of Lands and Forests. Here the air patrol discovered a fire under circumstances where speed was necessary if a disastrous fire was to be It was seventy-five miles from the base, and in less than three hours from starting two fire rangers vere fighting the fire. They stuck to it and held the fire down for two days. when they were re-inforced by men sent in from another point by canoe and the fire was finally controlled and extinguished. The cancemen had paddled a day and a half to get to the fire. The second case was in Northern Manitoba, where the Air Board is cooperating with the Dominion Forestry Branch. Here a small fire was dis covered late in the evening. At daylight next morning the airman and two forest officers were in the air, arriving at the fire at 4.30 a.m. The three started the fight immediately and by noon the fire was dead out. The Forestry Branch inspector Manitoba praises the keenness of the airmen in their work and records the excellent co-operation between the two services. The present season will do much to determine the place the airplane is to occupy in forest protec

### Testing Canadian Woods.

The announcement has recently een made that the Board of Works for the United Kingdom has added certain Canadian timbers to the list of those used by the department. That the qualities of Canadian woods might understood and the timbers thereby put to the best possible use, was the object of the Minister of the Interior, Canada, in establishing the Forest Products Laboratories in connection with the Forestry Branch. The laboratories are making mechanical and physical tests of Canadian woods and the results are published from time to time as the investigation of each species or group is completed. The information obtained is proving of great value not only to timber users in Great Britain and other countries, but also to Canadian engineers, architects and builders. Beginning with the more important species the investigation is to proceed until all the woods having any commercial value are tested. Bulletins 59 and 60, the two so far issued on this subject, may be had free upon application to the Director of Forestry, Ottawa.

### A Scotch Inheritance.

An American professor who was studying at Edinburgh University roomed at the home of a thrifty Scotch family. Each morning Mrs. MacAngus would come in with an agescarred dust-pan and a well-worn broom and sweep the floor, stooping about the place in back-breaking discomfort.

"I should think you would find it ventured one morning.

"No doot, no doot," agreed Mrs. Mac-Angus, "but I hae the brush and I hae The youngest braether got naething but a

## The Cleanest Town. Which town is the cleanest in the

world? We know several that are not. The cleanest town in the world is said to be Brock, in Holland. It has been famous for its cleanliness from time immemorial. The yards and streets are paved with polished stones, internot only a public benefactor but the mingled with bricks of various colors

What is beautiful is good, and who is good will soon be beautiful. Sap-

It grew colder and colder in the icy crevasse. Cope's mitts fell off, and he watched them drop, striking the ice, until they disappeared. were soon numb, and his body half frozen. Now and then the roar of ice falling down some far distant crevasce broke the silence.

At last the ladder was finished, and the men lowered it. Since Cope's of touch was completely gone by that climbed. Swinging backward and forward over the pit, he gradually made his way toward the top. But just be fore he reached it his harness came off. If he slipped, nothing would save him from being dashed to pieces. He was so numb and exhausted that he could not stretch his legs far enough to reach from one rung to the next.

He called up faintly to the men, and they lowered the harness until he was able to push his legs through it. Half sittling in it and feebly grasping the rope ladder he was hauled the few remaining feet to the surface. He had been hanging over that apparently bottomless pit for three and a half

#### Bits of Canadian News.

A syndicate is being formed with Lord Morris, late Prime Minister of Newfoundland, at its head, to take up the development of Alberta coal re sources. The syndicate proposes to acquire a coal mine in Edmonton district and by a special process transform the coal into briquettes. It is expected that a plant will be built shortly and operations commenced.

A co-operative marketing scheme for the disposal of potatoes similar to that already in force in Michigan and Minnesota, will be tried out this year by Alberta farmers, according to J. H. Hare, commissioner of marketing for the Alberta Department of Agricul-The scheme will involve the ture. establishment of a grading station at which all potatoes will be graded for shipment. Inspection will be given at the other end, potatoes going through in such cases subject to rejection.

About twenty-five tons of oil drilling machinery left Peace River recently on board the steamer D. A. Thomas for the Fort Norman oil fields. This machinery is being shipped by the Canada-United States Oil Refining Corporation of Chicago, which company has already sent a large consignment of machinery to these northern fields for the development of their holdings there.

The value of bacon exports from Canada during 1920 was \$34,000,000. An active campaign is being conduct ed by the Dominion Department of Agriculture in co-operation with the provincial departments to increase trade and incidentally to maintain the quality of Canadian bacon, which years ago procured for it a steady mar-

cet in Great Britain. A gold discovery has been reported to the Ontario Department of Mines by A. G. Burrows. It is located near Godreau, Ontario, a short distance north of Lake Superior. A number of asays have been made giving a gold value at the rate of \$31.20 a ton and

quartz at \$48.80 a ton. Efforts of the Department of Agriculture to improve the varieties of fruits and vegetables grown in Canada are meeting with considerable success officials of the department state. Special attention is being paid to the cultivation of apples, plums and other ruits. Experiments have also been conducted for several years with potatoes, tomatoes and lettuce in an endeavor to produce a strain which would ripen faster, produce a larger ordinary variety.

According to figures published by the External Trade Division of the Dominion Bureau of Statistics, Canada's trade with the United States is reaching a more normal level. In 1920 goods imported from the United States were valued at \$660,509,487, while exports only amounted to \$488,974,570, with a resultant balance of \$371,534,-917 in favor of the United States. In 1921, for the year ended June 30, Canada imported goods from the United States with a value of \$766,-393,077, and exported googs valued at \$501.933,266, reducing the trade balance in favor of the United States for the year to \$264,459,811.

#### Forest Protection Advice From the Clouds.

Even old woodsmen, who might be supposed to be prejudiced in the opposite direction, testify that the printed notice, the fire warning bill or poster, is the most important weapon which to fight forest fires. Keeping in close touch with every part of its vast easier to use a broom," the professor field the Forestry branch of the Department of the Interior now prints a completely different set of posters each season, so as to keep the warnings as attractive and striking as possible. This season two new forms of notice have been added, the first is composed of stickers to be placed on the wind-shields of automobiles entering Dominion forests and the other of slips of tiny hand bills to be d by the men of the forestry air patrol as they fly over camps and picnic parties. One of these latter bears the words "Citizens! Help the Forest Service to protect your property by being careful with fire in the woods. Co-operative Aerial Patrol-Forestry Branch Air Board."

Drive yourself, not, others.