# Of Interest to Motorists

IN BEARINGS.

involves a minimum of friction. Ca- cam shaft. Perfectly lubricated, these altogether desirable. The ability to The bearings considered so far are achieve fine adjustments is a third cared for by the lubricating system consideration of importance. These of the engine which starts when the are all reasons why the bearings of a engine starts to run if there is a supmotor car are tremendously import- ply of oil. ant factors in operating the vehicle The fan usually runs on ball bearsatisfactorily. A bearing is designed ings which are lubricated with a for the purpose of lessening friction, squirt can. The water pump bearings helping parts of the machine to wear are lubricated by compression grease longer and to secure a splendid ad- cups. When the bearings become

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the metals are selected with the idea need replacing. of obtaining great strength rather The valve-stem guides are most than non-friction qualities. On the often holes bored through the cylinder other hand, some have strong metal casting. When wear occurs the holes shells lined with a comparatively soft must be reamed true and larger, and non-friction metal. In addition there valves with larger stems be inserted. are the so-called anti-friction bear- In the ignition system ball bearings ings, in which balls or straight, tap- usually are employed, with or withered or helical rollers are used. These out means of adjustment. These are give a rolling rather than a sliding lubricated with an oil can or packed

BEARINGS IN ENGINES.

than a hundred bearings. The cylin- does wear and needs replacing at der and piston, not generally termed times. The throttle bearings should bearings, are usually of cast iron, be lubricated. which gives comparatively long wear | The throttle and spark-control linkand in which the friction is not great age have a number of bearings which if well lubricated. When wear does should be frequently lubricated. Usuoccur at this point it is necessary to ally they are not adjustable, so that rebore the cylinders and have larger parts must be replaced when they bepistons fitted. The wrist-pin bear- come badly worn. ings usually are in the form of a bronze shell, called a bushing, surrounding the wrist-pin. When wear occurs it is necessary to drive out the bushing and replace with a new one which fits.

The crank-pin bearings are usually bronze lined with babbist. When wear occurs here the adjustment is made they do require a very slighe trace by taking out thin sheets of metal called shims. The main crankshaft bearings are of the same type. The cam-shaft bearings are usually of ball type which must be replaced with new ones when they become worn. The cam-follower bearings may be just flat plates resting directly upon the cam, or rollers running on a pin in the valve push rod. Wear in these parts would usually be compensated for by adjusting screws on the valve push rods. The push-rod guides require replacement when worn.

OIL PUMP CONSTRUCTION.

## The World's Poultry Congress to Date.

The organizing of the World's Poultry Congress, to be held in Ot- ada's estimated area of arable land is choosing colors the purpose of the to be a fail sentence for being late. tawa, July 27—Aug. 4, 1927, began to-day alienated and occupied, though room should be the first consideration Time is the most valuable thing we shortly after the close of the Con- not fully developed. If we credit the decoration. The color selection and he can earn more. But when you gress held in Spain in 1924.

cutive, and the Canadian Congress clude that it contains the cream of the outside dirt-that is, what is the king's men can get it back for him. Committee were appointed, and Pro- our vast, arable area. No agricultural dirt within two or three minutes walk vincial Congress Committees were country on earth would, in its virgin of the place where the floor is to be Agriculture is Honorary Chairman of high quality land as one-third of its or just common city, oily dirt? the Canadian Committee and the Min- arable area. We must, therefore, adister of Agriculture in each Province mit, and anyone conversant with the well known to require much discus- quarter of our export trade; they prois Chairman of the Provincial Com- facts will readily support such a con- sion. Suffice it to say that if a floor vide 20 per cent. of the entire freight

January, 1926. At the present time category of medium to inferior lands. little sunshine, colors which best re- senger traffic earnings by the attrac-80 countries have signified their in- To obtain a true picture of our real flect light from northern exposure tion of tourists; they provide direct tention of sending delegates, and a colonization problem, we must realize would be more suitable than those employment for over 97,000 workers Myself from sudden angers, passions,

The sessions of the program will within the term "marginal." An sorb light rays. be held in the Auditorium, and out- examination of them would at once side of official and public Congress reveal the fact that nine-tenths are meeting there will be five different sec- below par in quality. They are lotions operating simultaneously from cated in areas where the rainfall softwood supplies in the British Emhalf-past nine to half-past twelve normally is insufficient to produce pire. Only by curtailing losses and in-

Exhibition Buildings at Lansdowne stony, or have thin soil, or exhibit other ties in this direction; she must con-Park, which will be open from one undesirable features. They are, in fact, serve her forest wealth and bring frequently used by officers of the Dep.m. to eleven p.m. The display of ex- culls. Most of these lands present a about a more healthy relationship be partment of the Interior in carrying hibits will be the finest and most com- problem in human labor, and are mar- tween depletion and annual growth. out patrols, surveys, and other work. prehensive that has ever been given ginal only until reclaimed by hard in Canada, and although the chief pioneering effort when they will feature will be poultry, the exhibits graduate into the class of more or less will be of such a varied nature as to productive lands. But their reclamabe of interest to every person. tion involves clearing, digging out

Membership is by registration and stones, drainage or similar uninvitthe payment of the fee, which is five ing and time-consuming labor, unprodollars for regular members and three ductive for the time being. for associate members. The regular A depressing number of Canadians, members receive a copy of the printed Britishers and Americans have failreport of proceedings, and all are en- ed, at great economic loss and to the titled to attend meetings, exhibits everlasting detriment of Canada, in establishing themselves permanently and functions.

There will be special rates for those upon farms of that class in Western who come by train, and good parking Canada. "Flivvers", rural phones and camping for motorists. Accom- and mail delivery can play no conmodation is being arranged at reas- spicuous part in such a toilsome onable rates for all. Information can undertaking. It calls rather for the be secured from your Provincial Com- Spartanic life of the early backwoods mittee or from the Executive at settler of old Canada, with something Ottawa .- F. C. Elford, General Di- approaching the crude standard of rector of the Congress.

# Must Be Polite.

clearly, recognize that the greater She was the owner of a prize dog, part of this strenuous enterprise canand had occasion to speak severely to not be successfully accomplished by her maid, who had entered the room to people accustomed to the high standtake the canine phenomenon for a ard of living of most of the countries we are pleased to designate "prefer-

The maid had said: "Come along, red" in our present immigration pol-Fi-Fi"-just like that.

icy. Canada must be prepared to look "Wilson," said the lady, curbing her to the European peasant class for the indignation with an effort, "I do not in- colution of this problem. rist on your calling Fi-Fi 'Miss,' but I must ank you, when addressing her, to say 'Please.'

If you suspect a man, don't employ number of canine favorites, but Prinhim; if you employ him, don't suspect cess Mary, Viscountess Lascelles, pre-

LIFE OF CAR IS AT STAKE | plunger working in a small cylinder, with one end bearing against a cam, "" automobile experience or a pair of gears driven from the west is another asset bearings seldom require adjustment.

badly worn it is necessary to drive There are several types of bearings them out the bushings and replace to be found in motor cars. In some them. Probably the shaft also will

The carburetor air-valve bearing In the engine alone there are more operates better if not lubricated, but

EFFECT ON SELF-STARTER.

The self-starter motor and generator are usually equipped with ball bearings and are lubricated with a squirt can. Both the motor and generator have a copper commutator on which carbon brushes bear. These are

gine are kept well lubricated by the kept in condition. main engine lubricating system, those usually need individual attention. The to such an extent that every room in bearings in the transmission gear, rear axle and steering gear are lubri-The oil pump bearings consist of a tion book and should be studied

Canada's Key Problem.

BY C. W. PETERSON.

living then in vogue. Who is going

to "mop up" this Herculanean task

for us? We might as well, now and

Royalty's Favorite Pets.

The Prince of Wales has a large

sions, to match any sample. Approximately one-third of Can- only to enhance their beauty. In dot for an appointment. There ought people who selected this land with should also be made with due con- steal a man's time, it is gone forever, Early in 1925 the Congress Exe- ordinary, common sense, we must con- sideration for the general character of and not all the king's horses or all the

clusion, that our present unalienated, is to be laid on the north side of a haulage on Canadian railways and in building where there is comparatively addition substantially augment pasthat the bulk of these lands come colors which have a tendency to ob- and furnish salaries and wages to the

# Canada's Softwoods.

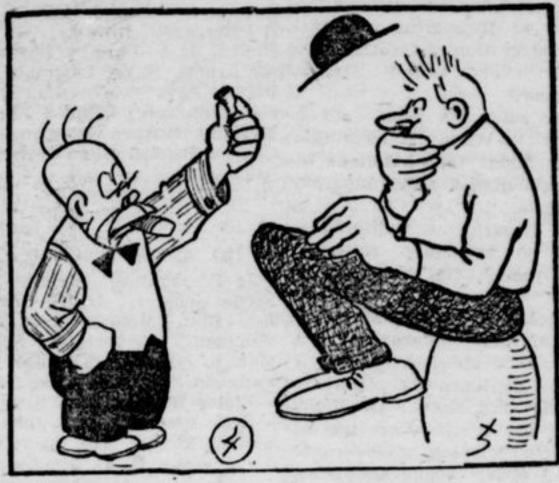
Canada is the principal source of satisfactory agricultural results, or creasing productivity can she hope to for travelling or transport of supplies There is no victory over life, The exhibits will be staged in the they are heavily treed and low-lying, discharge faithfully her responsibili-

ADAMSON'S ADVENTURES-By O. Jacobsson.









## Rubber Floors Are a New Comfort.

The increasing use of rubber soles and heels on shoes during the last few years was sufficient to establish the measure of foot comfort to be secured not bearings, strictly speaking, but from a continuous rubber tread. How much more comfortable then is a rubber floor with its greater firmness, Other principal bearings are usual- with a resiliency that takes up shock ly of ball or roller type, which may or and yet does not "draw" the feet? It may not be adjustable. While prac- has the added advantage of possessing tically all of the bearings in the en- long wearing qualities and is easily

The use of rubber tiles for floors has located on other parts of the chassis progressed during the last few years the house may now be suitably and beautifully covered in this interesting

The Federal Minister of state, contain so large a proportion of laid? Is it red clay, sand, desert dirt,

# Balm.

Beauty is a balm For dark grief: Her laugh is lighter Than a willow leaf.

She walks at twilight Where water sighs; She beckons to me Where wind cries.

Her hand plants grasses In the sod, And her hand gently Leads to God. -Blanche Waltrip Rose. \_\_\_ On Time.

Appointments are made to keep. An fashion. Vestibules, halls, living engagement for ten o'clock means for and accomplishment. You can't judge were followed. in the respective housings. Direc- rooms, kitchens, stairs treads, bed- ten o'clock, not for a quarter past, or your own stuff. Many times you will rooms and nurseries are now being eleven. We have tried for years to do a job you think is at the top of the along highways and bordering fields given in the manufacturer's instruc- covered with satisfactory results. think up a real excuse for somebody heap, and nobody will notice it; an- for windbreaks will, as the practice These floors are made in a range of who was late, and we've never been more than thirty colors, or, on occa- able to do so. It isn't as if we weren't you give no heed to, or that you think ing the wood supply materially and, tons and he will bring it back with The colors are permanent, for they expert. But, hunt the world over as run through the entire thickness of the we have, we never yet have run upon ing about what a fine piece of work it material and natural abrasion serves a decent excuse for not being on the

# Canada's Forests.

The forests of Canada rank second only to agriculture in the value of their total of over \$100,000,000 per year.

# Dog-Power.

In the isolated and colder parts of Canada, beyond the influence of railway, automobile, or horse, the power throughout the winter months is fur-

# Tree Production.

It is estimated by the Forest Service of the Department of the Interior that the only economic use for threeeighths of the land area of Canada lies in the growing of trees. This was area of territory, while incapable of successful agricultural production is, if permanently dedicated, protected, and managed, suited to the production of a timber crop which would guarantee for all time the supply of raw material for Canada's wood-using indus

## Impossible to Judge Oneself.

No fellow can tell how good he is a good excuse-maker either. We're is very punk, and you will be astonish- in the course of yeras, may build up

## Mount Bagot.

A peak of interest on the British Columbia-Alaska International Bound ary is Mount Bagot, with an elevation of 7,155 feet. According to the Geographic Board of Canada, the mountain is named after Sir Charles Bagot, British Ambassador to Russia and plenipotentiary to St. Petersburg in 1822 in connection with the negotiations in regard to the Alaska boun-

# For Conquest.

It is myself I want to conquer, For if I hold secure I shall succeed-endure.

It is myself in bitter moments That I must vanquish first, sharp-spoken, These are the things accursed.

Or love, or deeds, except - Faith with Far heights is kept.

-George Elliston.

## Importance of Forests to Canadian Industry.

Recently a great deal was heard about Canada's forest resources, their conservation and their destruction "Save the Forest" campaign was held throughout Canada during the week April 24-30, and the Federal and Provincial governments, organized clubs, Pulp and Paper Association, schools, churches, radio stations and theatres co-operated in emphasizing the necessity of preventing forest fires and conserving our Canadian forest re-

The potential value of the forests as a very great asset is being emphatically stressed, but the value of the forests as a source of employment affects us all vitally and particularly. According to the latest census of figures, there are nearly 130,000 persons employed in the wood and paper inimportant and essential part, another with. 185,000 are employed. Transporta- His gentleness of soul reveals itself tion services which owe so much to in his love of the beautiful, the young products of the forests which consti- and the helpless, and also in counttute one of their largest and most con- less little ways which show the utter sistent sources of revenue afford em- cleanness of his heart and mind. I ployment to nearly one-quarter mil- cannot imagine his ever having used lion persons, and so on. In fact, al- a coarse expression, or ever having most every industry, not excluding done a mean or dishonorable thing. agriculture itself, directly or indirect- You can leave letters and private ly relies for necessary equipment and papers all day under his nose and he supplies on the forests.

existent. The beauty of the forests, all gossip. . . . lakes and mountains, the abundance of game and fish, attracts many visitors and provides health and pleasure, also a large annaul revenue to Can-

Forests grow, mature, deteriorate and decay. Once a tree has attained maturity nothing is to be gained by postponing its cutting. When cutting the mature tree, however, the protection of the small tree struggling for its existence nearby should be assured. The small trees of to-day are our forests of the future.

has suggested that in each district love him-horses, dogs, cats, birds, where timber rights are granted, the and even a crazy young cockerel lost average annual growth per acre be his heart to him last spring, following ascertained and only the larger trees, him everywhere, even into his cottage. to an extent not exceeding the annual growth of timber as a whole per acre, about the lane and perch close to his be cut. The forests would be growing hand when he is working. or how bad he is. We mean in ability in value year by year if this plan

The planting of trees and shrubs other time you will do something that increases, become a means of increased to discover that everybody is talk- a valuable source of timber supplies.

#### The Happiest Heart. Who drives the horses of the sun

Shall lord it but a day; Better the lowly deed were done, And kept the humble way. The rust will find the sword of fame, The dust will hide the crown; Ay, none shall nail so high a name Time will not tear it down.

The happiest heart that ever beat Was in some quiet breast That found the common daylight

And left to heaven the rest.

The Essential Things.

most astonishing return from his era. capitalization. As a matter of fact his History, mythology, symbolism and

# Mr. Bluejacket.

He is only a common bluejacket, nothing more and nothing less, and when I begin to paint his picture in feeble words, I remember mournfully the old farmer's over-true jest end I wonder if any book is big enough to contain Mr. Bluejacket.

I wonder if there is a finer type of man in all the nations of the world than the rank and file of the British Navy which passes on into the coastguard service? The coastguardsman is, of course, the picked, first-class, perfect, common bluejacket. He does his first ten years at sea, and if his character is sufficiently stainless, he is then promoted to guard the shores of England. This has been the career of our Mr. Bluejacket. From nearly dustries of Canada and 40,000 in the every ship, his discharge has been. I logging industry. In the construction believe, "Exemplary," until that parindustry where wood plays such an ticular encomium was done away

doesn't take the very faintest interest In connection with trapping, hunt- in them. He has posted many letters ing and fishing, the value of the for- for me in his time, but I do not beest is of first importance, for if the lieve he could tell me the name or forests were destroyed, fur and game rank of one correspondent. He is utanimals would rapidly become non- terly above all such smallnesses and

Every Sunday morning . . . he picks a bunch of wild flowers, from the very first week that there are any to pick. He arranges them himself and often gives them to me for the lining-room table. He cannot bear the dining-room without flowers, and if I have carelessly not replenished the jug, he always complains how bare the table looks. He keeps that jug going with flowers up to the very last bloom, and his own cottage is never without a bunch of flowers. He has also a passion for animals, though it is nothing One well-known forest authority to their affection for him. All animals I have seen a robin follow him

> How clever he is with those same hands! Are all bluejackets as clever? He can sew. Hand him a pair of stockings and he will darn them. Bow him out with a boot and a packet of butwrites a beautiful fine delicate hand and can do the big lettering on the canvas covers of vans. His thimble is a fearsome sight, a sort of leather gauntlet with a half thimble set into a hole in the centre of the palm. This is what he used for sail making. He can paint and whitewash, cook, wait at table, clean, polish, scrub-oh, how he scrubs! What the boards are like since he took them over!

He is a genius at vegetable growing. We have never had such vegetables.- Beatrice Chase, in "Through a Dartmoor Window."

## The Romantic History of the Mirror.

Aside from the woodkand pools in Mr. Clarence Darrow makes much whose pellucid depths Narcissus viewof the fact that the chemical materials ed his lovely face and the fair forms that compose a man's body could be of Diana and the nymphs were faithbought at a drug store for ninety-five fully reflected, the earliest mirrors cents. Then the man whose services were the bronze disks of Egypt and to a great business enterprise are Etruria, fashioned by cunning craftes-My own quick clamorous words, worth \$100,000 a year is producing the men centuries before the Christian

> capital is something far greater than religion are inseparably linked with the market price of his mineral ele- those ancient mirrors, for though their ments. The fact that you can't see or once brilliant surfaces are dimmed by weigh or touch with your fingers the the chemistry of time, on their bronze mind, the character, the soul of man backs are still visible designs portraydoes not mean that these things do not ing mythological gods, Etruscan figures like those on Greek wases, national heroes, the labors of Heracles, the story of Helen and more rarely scenes of war-each a link in the chain of history.

> > Mirrors of the Etruscans, Greeks and Romans were a thin disk of metal, usually bronze, the size of an ordinary hand mirror, slightly convex and polished on one side, the other left plain, or with a design incised upon it. The "box" mirrors of the Greeks were two circular metal disks, fitting into each other, sometimes fastened together by a hinge. The cover was ornamented with a design in low relief, the inside polished to reflect the face. The oldest bronze mirrors of Egypt were found in the tombs of the Fourth and Fifth dynasty, and even their forms had significance. Shaped like the solar disk, slightly flattened at the top, they symbolized Ra, the sun god, from whose rays they reflected the light. With the conservation of the East,

> > the Chinese and Japanese still use hand mirrors of metal, the Chinese regarding bronze mirrors with the same veneration as is described in the literature of the ninth century. The first mirrors of China were made of polished stone, iron, jade or bronze.

Not until 1507 was the secret of making large mirrors from cylinders of blown glass, silvered with an amalgam of tin and mercury, discovered in Murano and thereafter for more than a century Venice supplied the whole world. About 1500 the circular "bull's eye" mirror with convex glass came into vogue.

# Courageous Woman Saved Soldier in Wardrobe.



FRENCH WOMAN CONGRATULATED ON FEAT ACHIEVED DURING WAR

Group picture shows Capt. Riviere of the 11th Hussars congratulating Mme. Belmont-Gobert for her work at Dover, England. It was she who hid a British soldier, Trooper Fowler, of the 11th Hussars, in her closet for 4 years during the occupation by the Germans. She is a Frenchwoman. The wardrobe, also shown in the layout, is in the house of Mme. Belmont-Gobertat Bertry, in which Trooper Fowler hid during his four years' hiding from the Germans. This wardrobe has been removed to London.