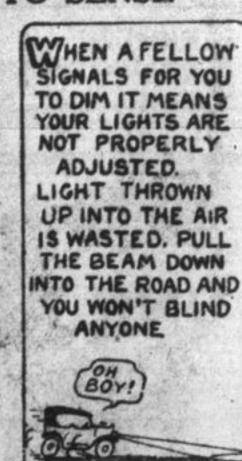
### **AUTO SENSE**

### THE DIMMING QUESTION

By Williamson









SLIP IT UNDER

YOUR HAT BRIM

Driving against glaring headlights | will learn to look at the road just | the latter is likely to get in the line | motorist and help increase the safety is an art, but even an artist will over your right fender instead of of your vision and cause an acci- of the road by working for an adhave to keep his windshield free the usual distance ahead. Before dent. Do not try to look through justment law to replace the dimfrom moisture and dust if he wants mate the width of the road and the enough to get the celluloid between down onto the road will not blind to live long and die happy. Per- distance you will have to travel he the lights and your eyes, but peep you, but if you are forced to dim haps you have ridden behind driv- fore passing the other car. Then get out from under it at the road. | your lights suddenly and get over ers who never slackened their over on your eide of the road and The majority of states are seek- near the edge of the road you may pace when passing a car with blind- stay there until you pass. | ing legislation which will kill the go into the ditch. Did you ever go ing lights. It may be recklessness, get a transparent eyeshade and use them make it compulsory to dim and have to grope around to find a but the chances are that they have it as Doc directs. This is more when meeting another car. If you seat? The effect is the same when

-75 FEET -

mastered the art.

McLaughlin Car

Owners

Try the man that

knows your car.

Six years of factory experi-

All work absolutely guaran-

nce in the McLaughlin factory.

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See us for all kinds of Carpentry work. Estimates given on new floars inid. Have your hardwood floors clean-ed with our new floar cleaning ma-

We Can Make

Your gasoline engine as powerful as when new. Arrange

with us to have the cylinder reground and fitted with over-

size piston and rings. Call and

Automotive

**GrindersLimited** 

225 Wellington Street

see our Heald regrinder.

the car gets too close to you, esti- the shade. Duck your head just ming regulation. Lights thrown

satisfactory than a piece of cellu- have any influence with your legis- you are forced to dim. Think it That art can be mastered if you loid attached to the windshield, as lators, you can be of service to the over.

If you can not master this, then glare of headlights. The most of into a movie from a sunny street

### EXPLAINS RELATION OF HIGH POWER AND AIR-COOLING

Unlimited Cooling Range of Air Makes Maximum Power Output Possible.

mance possibilities of the air-cool- auxiliary cooling. ed motor, and unable to account for tributor of the Franklin car.

one recalls that air as a cooling 

# Auto Tops

New and Repaired Cushions SIDE CURTAINS.

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Auto Batteries Made and Repaired When you need your Battery repaired or one made to order, also automobile repair work, it will pay you to see us.

**ELLIOTT & WILLIAMSON** 210 DIVISION STREET

Prompt, Courteous Service 299-305 Queen FROST'S Phone 526

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32x4 Dunlop Traction Cords . \$17.30 31x4 Dunlop Ribbed Cords . \$14.95 A few 30x3½ Cords at

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Has proven its high qualities. For that reason the ading dealers recognize its superiority, and now stock them and recommend them to Automobile Owners and Radio Fans.

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### medium never ceases to have a cool- End of Motor Gearshitt ing influence. With no boiling or freezing points, air has an unlimited cooling range and there is no loss of power in hard tests where Franklin Dealer Shows How loss of power would be expected

with other motors. "The advantage is reflected in the tests of one of America's foremost engineering schools where pressure air-cooled Franklin motor "In demonstrating the latest was the only engine capable of op-Franklin model, we frequently find | erating under full throttle condimotorists amazed over the perfor- tions for indefinite periods without

"Also, in every day road experthe advantage in sustained power." lences in the hilly and mountainsays M. Oberndorffer, Kingston, dis- ous sections, the high-powered gressively as the car gains speed so Franklin continues its upgrade that the motor, continuing to turn at "The relation between air-cooling travel in high gear when overheat- a normal speed, applies its power at and high power is not puzzling when ing or the necessity of shifting is what corresponds to a very low gear commonly experienced.

> bility is especially characteristic of until direct drive is reached. qualities into the car, because air- to move the car. cooling dispenses with shock-conducting constructions.

under these conditions.

"double clutching."

# Aim of French Engineers

ers of France.

next year. It is a series of ratchets automatically thrown into action proat the start, and at an increasingly "This power and cooling relia- higher gear as the speed increases,

the latest high powered Franklin. As there is neither differential nor Years ago, the outstanding ad- gearshift the driver has only to start, vantages of the air-cooled motor let in his clutch and step on the accelwere cold weather reliability, plus erator. The amount of gas alone deterthe freedom it gave to engineers in mines the power applied, and the speed building comfort and easy handling is dependent upon the power required

Besides simplifying a car, this mechanism is intended to obviate shock to "Now, in addition to comfort and tor. If a heavy load were put suddenly reliability, air-cooling makes pos- upon the engine the mechanism autotible the startling degree of sus- matically would adjust itself, changtained power which proves so in- ing the gear to a lower one that would teresting to automobilists of King- allow the engine to maintain an effiston in our every day demonstra- cient speed while propelling the car

ALBERT L. CLOUGH

Further Gear Shifting Suggestions

SOME CLUTCHES embody a clutch brake, which acts to apply friction to the driven member, when it is in its extreme disengaged

position, and thus stop it from spinning. The clutch brake surfaces may wear out in time and spinning take place, which will be indicated by clashing, especially when shifting to a higher gear. Braking action can be restored in some cases by adjustment and by refacing of parts

in others. As the clutch brake acts only when the pedal is pushed

away forward, it should be operated thus in changing from a lower to a higher gear, but in shifting from a higher to a lower gear, the

pedal should not be pushed so far, as the braking action is not needed

Transmission Lubricant Consistency

The use of a very sticky, ropy lubricant, which clings closely about the transmission gears and absorbs a lot of power in churning it, tends to stop the clutch and gears from spinning almost instantly

upon clutch disengagement, thus acting like a rather violent clutch

brake. Instances of unavoidable clashing at shifting are sometimes attributable to this cause. Making the shift extremely quick may overcome this trouble somewhat, but substitution of a fluid lubricant

of a less adhesive character is the real remedy. Smooth changing

from a lower to a higher ratio is easy with the average car, but "slick" shifts from third to second are difficult to attain except by resort to

TROUBLE FROM RADIATOR | there is sure to be noise and all CEMENT | bearing play should be taken up by

D. B. writes: I put a quantity of wheel gear. How can this be pre-

poling system of my car, which vented?

has so plugged up the radiator that circulation is hindered and over-

heating takes place. How can I

Answer: We doubt if any treatment you can apply to the radiator,

in position on the car, will clean it

out effectually. Your best course

is to take the radiator off and let

a professional radiator repairer see

W. E. writes: For a long time

cated until the other day, when the

fan belt broke and the noise stopped. What do you think can be wrong about this fan that makes

clean the stuff out?

what he can do with it.

adjustment of the ball bearings, if they are the kind provided. If a fan runs extremely close to the

radiator it may, at times, rub against it noisily. Some old style fan-belts have their ends held to-

gether with a hook which may make a noise in passing over the

STARTER GEARS JAM

jammed and putting in new parts made the situation worse rather

than better. The shaft is not bent,

but still the pinlon jams in the fly-

W. B. writes: The starter of my

car frequently becomes



The colleens' beauty chorus in parade in "Bringing Up Fa ther in Ireland," at the Grand Opera House on Nov. 21st and 22nd.

Report Issued by the Department of Public Highways at Toronto.

Toronto to Quebec boundary-302 miles. Toronto to Oshawa, excellent paved road. Oshawa to west boundary of Durham, road closed. Oshawa to Bowmanville, detour north two miles in good condition. to 5th Concession of Darlington township east to Hepburn, then south to Fish, Bearing Aluminum Bowmanville. Good road to Welcome. Detour at Welcome, to Dale, thence east to Cobourg via Gore's Landing Small detour at old C.N.R. Crossing, two miles east of Cobourg. Good road be trailed in their wanderings around tion was built on specifications laid Cobourg to Bayside Road east of Tren- the oceans in a manner not unlike down by a group of consulting engiton. Detour northeast to Belleville. police methods of tracing automobiles neers, after scientific tests had been Good macadam road to Shannonville. by their license numbers, according to made at the University of Michigan

Paris, Nov. 14.—The death of the Marysville. Road under construction gy at Standford University. gearshift in automobiles often has been in Deseronto. Detour in town only. Professor Gilbert explains that announced, but the funeral has never Good macadam to east boundary of "scales render a report on the bringtaken place. The latest advance no- Lennox and Addington. Boundary of ing-up of the fish as well as furnish tice of the passing of the gearshift and Frontenac to Kingston, good macadam birth certificates and automatic age rethe differential is a complicated mech- Kingston to Brockville, good macadam corders, and show the approximate anism shown first at last year's auto Brockville to Prescott, good macadam weight and size at any time during its salon, and exhibited again in perfect and gravel. Prescott to Cornwall, fair past growth." form this year by one of the best mak- macadam. Paving proceeding in town A few scales are scraped from the of Cornwall with detours plainly mark- back of a salmon and stuck in a book It has been tried for two years on ed. Cornwall to Lancaster, fair maca-topposite a number. A small aluminum trucks and some test cars, but prob- dam. Lancaster to Quebec boundary, tag bearing this number is clamped ably won't get on the market until five miles good macadam; three miles on the fish's tail and it is thrown back rough. Traffic to Montreal proceed via into the water. Under Dr. Gilbert's

Cateau Landling. Whitby to Lindsay-48 miles. Good were tagged in this way last year. gravel road. Short detour round culvert under construction at Oakwood. | New Oiling System Shown Port Hope to Peterborough-29 miles, good road throughout. Loose gravel from Bailieboro to Fraserville.

Picton to Foxboro-Good road to Bloomfield, under construction. New of proper oiling, once thought solved. Foxboro, good macadam road through revolutions a minutes must be well lu-

the engine and prevent stalling the mo- Perth), fair macadam. Construction the crankcase, causing further deteriproceeding for three miles. No de- oration.

cott to Beckett's Landing, good gravel the engine.

and concrete road. Carleton county New Principle in Motors boundary to North Gower, good gravel road. Concrete pavement under construction from Tod's Corners to Water sons' Corners. Waterson's Corners to Manotick, gravel road fair, Manotick to Jock River, concrete road, good. Jock River to Ottawa, asphalt road,

Ottawa to Pembroke-105 miles. Gravel road in fair condition. Toronto to Severn-Paved to 6 miles north of Bradford, Balance gravel road

# Tags, Trailed Like Autos

Good gravel road to one mile south of Charles H. Gilbert, professor of zoolo- last year.

direction more than 10,000 salmon

# At Paris Motor Car Salon

Paris, Nov. 14.-High speed motors Pearsoll's Bridge. Pearsoll's Bridge to have brought with them the problem grading, drive slowly. Belleville to Engines that turn at 4,000 and 5,000 bricated. At first the oil film is ade-Kingston to Ottawa-131 miles. quate, but the friction of high speed Kingston to Joyceville, good macadam, soon heats the oil, thinning it so that Joyceville to Smith's Falls, fair gravel. the lubrication is insufficient and also Smith's Falls to Carleton Place (via allowing the passage of gasoline into

tours. Carleton Place to Ashton, fair To counteract this one car at this macadam. Ashton to Stittsville, good year's exhibition in Paris has a radiagravel road. Stittsville to Ottawa, good | tor to cool the oil and a purifying system, so that oil of the same tempera-Prescott to Ottawa-60 miles. Pres- ture and quality is fed continuously to

# Being Tested on West Coast

Tacoma, Wash., Nov 14:-- A new principle in gasoline motors is being tested here on a power boat. The tests are being watched by engineers and others to discover if a new era in the history of gas engines is to be marked. The engine under experiment is the invention of three Spokane, Wash., men. It operates on a by-pass-valve-in-piston plan that does away with the need of any valve gear and is designed to produce a cool-running motor of great flexibility.

The motor is intended for automobiles, but marine tests are being made Palo Alto, Cal., Nov. 14.-Fish can also. The specimen under investiga-

### Germans Take Up Motorcycles.

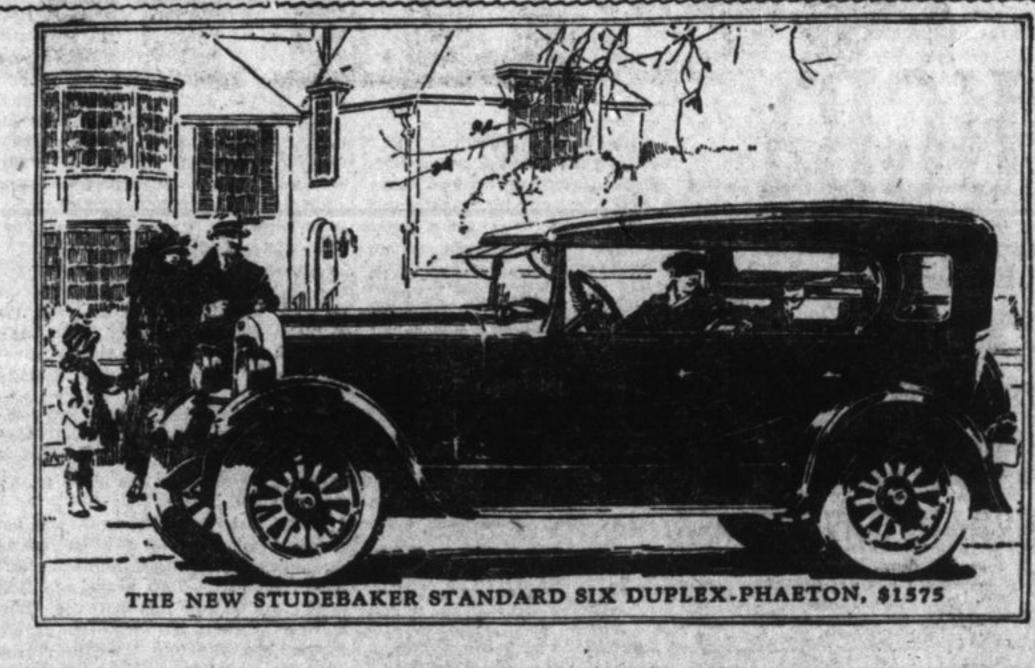
Berlin, Nov. 14 .- While the automobile in Germany falls very far short of the per capita of population number registered in the United States, the motorcycle is popular and increasing numerically rapidly. The total double ed between 1921 and 1923. There are now more than 50,000 such machines of 21/2 horse power, and 100,000 equipped with lower powered engines.

### PERSISTENT TALKERS



One of the greatest bores in the voluble talker, the man who laughs uproamously at his own jokes and gives no one else a chance to get in a word while he is around.

See Tweddell's \$25 overcoats.



# This new-type car solves an old-time family problem

STANDARD SIX 113.m. W.B. 50 H.P. Ouplex-Phaeton \$157 Ouplex-Roadster 155 Oupe-Roadster 192 oups . . . . 4-wheel brakes, 4 disc wheels, \$85 extra

SPECIAL SIX 120-in. W.B. 65 H.P. uplex-Phaeson \$205 uplex-Roadster 198 heel brakes, 5 disc wheels, \$105 extra

BIG SIX 127-in. W. B. 75 H. P. 4-wheel brakes, 5 disc wheels, \$105 extra (All prices f. o. b. Walkereille Intorio, exclusive of taxes, and abject to change without notice.)

Answer: If the starter shaft is considerably worn in its bearing. there may be a chance for the pinion to get out of alignment shough to make it cramp in the gear teeth. The same thing may happen, if for any reason, the whole starter unit is loose on its Answer: It may be that one blade has become bent differently from the others, which affects the balance and causes the fan to run unevenly. Possibly a blade is loose, where it is riveted to the loose, where lit is riveted to the loose

Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope.

Unless the hub turns on its bearings without wabbling noticeably, inot interfered with?

DAD has always wanted an open car. He likes freedom. He wants speed—and flexibility. He loves to open 'er up on a smooth country road and feel the wind whiz But Mother . . . she wants comfort and protection - she's thinking

Then when it storms it may be changed to a comfortable, weather-tight enclosed car with complete protection from wind and rain. Thirty seconds is all it takes -

of that rainy day when the young-

car to meet this old-time family

And here at last is a new-type

It's a glorious-joyous-free, airy

sters have to go to school.

simply lower the roller side en-closures, without even leaving your seat. You've never seen anything The Duplex body is framed and

the woman who wants closed car protection right at her finger tips-this car offers a wonderful new ad-

venture-it marks a new era in t In justice to yourself - see the

new Duplex now. Only Studebaker

shaped in steel. Upper and lower sections are integral. Thus its construction is substantial and its

It banishes once and for all the trouble of attaching the old-type

No more hurried efforts hunting

for the right curtain while the storm

No more exposure, through holes torn in them, while trying to obtain,

for the emergency, the protection given by a closed car.

the thrill of open car motoring-to

To the man unwilling to sacrifice

curtains-makeshift at best.

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STUDEBAKER DUPLEX

STUDEBAKER YEAR