

KEROSENE PROBLEM ONE OF ECONOMICS, SAYS AN ENGINEER

Low Cost Today Due to Limited Use; Demand May Bring Improvement.

Kerosene as a fuel for automobiles is not a new proposition. Not long ago an interesting serial story appeared in a popular weekly, woven around the invention of a kerosene carburetor. As a matter of fact, there have been a number of practical kerosene carburetors produced, but they don't seem to take hold, nor to appear to fill a long-felt want.

The reporter referred this question to engineers of a well known carburetor concern, in seeking a simple solution to this question which has been much discussed recently. According to these authorities, it is largely a question of economics and convenience.

When the demand for gasoline was small the proportion taken from the crude oil was also small. As the demand increased, new methods of production have increased the proportion of gasoline at the expense of kerosene, and doubtless still more efficient methods will produce a satisfactory fuel from a still greater proportion of the crude oil.

If the demand should shift to kerosene, the incentive for an improved method of manufacture would be removed, and the kerosene would have to bear a much greater proportion of the income to be derived from the crude oil. Hence the low cost of kerosene is due solely to its limited use.

Furthermore, the proper burning of kerosene is a function of the motor rather than of the carburetor. To atomize kerosene is no more difficult than to atomize gasoline. The heat required for vaporization would necessarily be greater, and the capacity would, therefore, be much less. Larger motors would have to be provided for a given power, because of the higher temperature at which the mixture enters the cylinders. Unless water is used with the kerosene, the difficulty for the collection of carbon on the piston is much greater.

Taken all together, the uses of kerosene on the automobile would not be an unmitigated blessing, but the improvement of motors is going on all the time and it may be possible that some time in the near future kerosene will become a logical fuel, but that does not seem to be the case at present.

TAKE AS FEW THINGS AS POSSIBLE ADVICE GIVEN CAMP PARTIES

Greatest Mistake in Preparing for Outing Is to Take Everything Conceived Of.

The greatest mistake the embryo camper can make is to pack up everything in sight for use "in case he needs it." To cart along a whole furniture department, throw in a kitchen and linen store for good measure and finally add the most important materials and goods on display in the sporting goods store, may be a phase of thorough preparedness, but it is exceedingly expensive, troublesome and unnecessary.

The fewer things you can cart along the better you'll enjoy your camping trip. The fewer the glasses and dishes you take, the less breakage there will be. In fact, unless you have so far succumbed to the corrupting influence of modern civilization that you can't enjoy a meal eaten from tinware, forget the glass and china kind. Aluminum, tin and paper make are just good, just as hygienic, and a whole lot more convenient. This is the advice Theodore von Keler gives to prospective motor campers in a story which appeared in recent issue of the Motorist.

Among other things this writer says: "There's a wild of difference between what you need and what you can use on a camping trip. For instance, it's very nice and convenient to have one of the latest collapsible gasoline-kerosene stoves made especially for motorist-campers. However, a fire built from brush and dry wood, with a trench or stone below, does just as well; and if you take pride in living the real camping life, use brush and wood." Mr. von Keler concludes this advice with: "If you don't know how to build a fire, pitch a tent or cook a meal, don't go camping."

Bible Society Opens Branch in Panama

New York, May 12.—The new Bible house of the American Bible society at Panama has just been completed and in connection with it, the society has sent from New York a beautiful motor boat ("Goodwill") suitably furnished for carrying Bibles in all languages to the ships as they pass through the canal. Since then the canal zone has been placed on a war footing and at the request of the United States naval authorities the boat has been turned over to the government for use as a patrol boat. Suitable arrangements, of course, will be made for proper compensation.

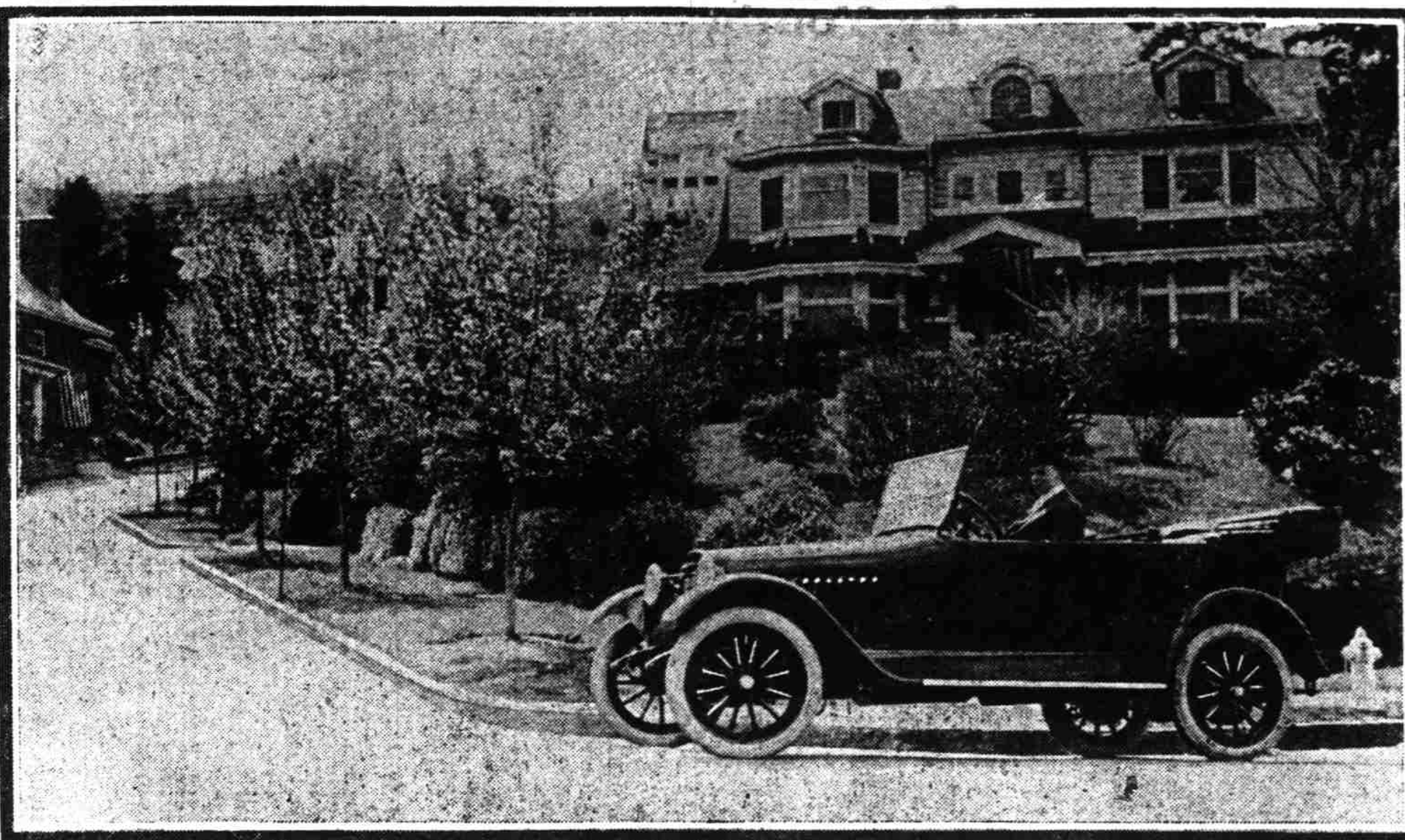
The society will miss the boat, but it is needless to say rejoices in being able to render this service "with good will in the same."

School Children Help in War Work

Buffalo, May 12.—Organizations of 7000 high school boys and girls of Buffalo for service to their country in time of need, and plans for some sort of military training of 65,000 school children in the city, have been completed.

More than 3000 boys between the ages of 14 and 20 are practicing military drill three times a week. More than 4000 high school girls are aiding the Red Cross. These girls are making garments, such as dressing gowns for use by sick and wounded, which, as fast as completed, are turned over for the proposed base hospital. Boy Scouts are collecting donations for the Red Cross.

A FEW MINUTES FROM BROADWAY



A new Chalmers on the Cornell road. On the one hand are attractive residence places and on the other a commanding view of the city below.

CAR SETS HIGH MARK IN NON-STOP CONTEST ON BEACH IN FLORIDA

Record Made Under Sanction of A. A. U. With Fred Wagner Holding Watch.

The Chalmers has set another mark for cars with engines of equal cubic inch displacement to fire at a stock chassis driven by Joe Dawson negotiated a mile in 38.19 seconds—a rate of nearly 95 miles an hour. The record was made under the sanction of the American Automobile association on the beach at Florida. Fred Wagner, the veteran timer who recently visited the coast, held the watch. Joseph Tracey, technical representative of the three A's, was present in his official capacity.

The only change made in the car, according to a telegram received by H. L. Keats, Chalmers distributor, was the removal of the fan belt, which made for better burning of gas. Much credit is due the little motor in comparison to larger cars, which have made slightly greater speed, as its engine is nearly 25 per cent smaller than the car of 300 cubic inch cylinder displacement, which made the mile in less than three seconds faster time.

4 Brothers Enlist From California

San Francisco, May 12.—The Chisholm family of Grimes, Colusa county, California, will be well represented in Uncle Sam's army. Four brothers—Ellsworth, 26; Denton, 21; Joseph, 20, and Royce Chisholm—have enlisted here and are anxious to see service.

"Star Spangled Banner" Recognized as National Air but Not Adopted by Law

Regulations of U. S. Army, Navy Make Specific Mention of This Selection, Although Congress Has Not Taken Official Action.

From the Boston Globe.
It has been stated that "The Star Spangled Banner" is the national air, but there is no congressional enactment on the subject. It comes inferentially from executive action, that is, the army and navy regulations, which are approved by the president, require "The Star Spangled Banner" to be played on certain ceremonial occasions at army posts, on board ships in commission and at naval stations, and in the same connection require that the "national air" of other countries shall be played on certain occasions.
In his book, "The Stars and Stripes," Charles W. Stewart states: "The army and navy regulations direct that 'The Star Spangled Banner' be played by the band at morning and evening colors, or, if there be no band, that colors be sounded by the field music—the bugle. The navy regulations, issued with the approval of the president, also require that the national air be played at 'colors' on ships and at stations where there is a band. In effect this makes 'The Star Spangled Banner' the national air."
The army and navy regulations relating to "The Star Spangled Banner" do not state specifically that the "national air" shall be played by the band, as stated by Mr. Stewart but that "The Star Spangled Banner" shall be played, but in the same connection they refer to circumstances under which the "national air" of other countries shall be played.
No Other Air Mentioned.
No other patriotic song is mentioned in the army or navy regulations, but in the old days the navy regulations—and presumably the army regulations also—required that "The Star Spangled Banner" should be played by the band at the hoisting of the flag in the morning, and "Hail Columbia" at the lowering of the flag at sundown.
Under Secretary Moody, "Hail Columbia" was omitted, and "The Star Spangled Banner" required to be played both morning and evening. That action eliminated "Hail Columbia" as a national air, so far as official action could accomplish it.
In many hymnals and song books "America" is given as "The National Anthem," but no official sanction has been found for it. Bills have been introduced in congress to make "The Star Spangled Banner" the national hymn, but not acted upon.
Army Regulations.
The following are extracts from regulations for the army of the United States:
"264. Commanding officers will require bands to play national and patriotic airs on appropriate occasions. The

playing of 'The Star Spangled Banner' as a part of a medley is prohibited.
"289. Whenever 'The Star Spangled Banner' is played by the band on a formal occasion at a military station, or at any place where persons belonging to the military service are present in their official capacity, all officers and enlisted men present will stand at attention, such position being retained until the last note of 'The Star Spangled Banner.' The same respect will be observed toward the national air of any other country, when it is played as a compliment to official representatives of such country.
"446. At every military post or station the flag will be hoisted at the sounding of the first note of the reveille, or of the first note of the march, if a march be played before reveille. The flag will be lowered at the sounding of the last note of the retreat, and while the flag is being lowered the band will play 'The Star Spangled Banner,' etc.

Navy Regulations.
Extracts from Regulations for the Government of the Navy of the United States are as follows:
"1172. Honors to National Air.—Whenever 'The Star Spangled Banner' is played on board a vessel of the navy, at a naval station, or any place where persons belonging to the naval service are present in their official capacity, or present unofficially, but in uniform, all officers and enlisted men shall stand at attention, facing toward the colors, or, if not colors, the music, retaining that position until the last note of the air, then, if covered, salute.
"The same respect will be observed toward the national air of any other country when it is played as a compliment to official representatives of that country. When played by a naval band under the circumstances contemplated by this paragraph, 'The Star Spangled Banner' shall be played through without the repetition of any part not required to be repeated to make the air complete.
"1264. (1) The following ceremonies shall be observed at 'colors' on board ships in commission: The field music, guard of the day, and the band, if there be one, shall be present. At morning 'colors' the band shall play 'The Star Spangled Banner' etc.
(2) The same ceremonies shall be observed at sunset 'colors.' The ensign being started from the peak or from the mast, the band shall play 'The Star Spangled Banner.' The ensign shall not be lowered hurriedly.

Full-Grown Swan Is Company's Latest
New Model Six Cylinder Has All Refinements and Improvements of Former Models of Well Known Make.
The interest of automobile row has been centered around the Howard Auto company's salesroom. The cause for this was the arrival last week of the latest addition to the Buick family, and while the new car is the baby of the Buick family as regards age, it is a full grown, seven passenger, and carries all of the tried and proved Buick features, as well as some improvements and refinements.
Dean, head of the Howard Auto company, has had the new car out on several test runs and says: "This new model, which is a six cylinder car of seven passenger capacity, is equipped with the Buick valve-in-head motor, improved and perfected beyond anything heretofore attained even by Buick engineers. It will, I am sure, conform to the ideas of those who have always wanted a larger Buick. The motor is considerably larger than the one used in the other Buick sizes and develops 60 horsepower with absolutely no effort. It has a double cowl and a new conception of stream-line designing.
The best so-called Japanese "rice" paper for cigarettes is made from flax and hemp waste.

Fishhooks in Pocket Land 2 Men in Jail

Los Angeles, May 12.—Billy Lang, proprietor of a lodging house, and his partner, Dan Regan, are in the city jail.
It is all because of Lang's peculiar views on the subject of other people getting into his pockets.
To demonstrate his views on the subject, Lang, before retiring, lined

the pockets of his trousers with fish hooks. Regan, enraged at his partner's untrusting disposition and his own lacerated hand, used physical force to remonstrate.
And now they are both in jail because Lang retaliated.

Legislators Consume Water Galore.
Sacramento, Cal., May 12.—The legislators are strong for water. Figures show that 1300 sanitary drinking cups were used daily in the senate and assembly chambers.

Don't Crawl Under Your Car
USE THE
Weed Chain Jack
Fast—Safe—Easy to Operate
BALLOU & WRIGHT
BROADWAY AND OAK

JOURNAL'S AUTO DIRECTORY
ARCHER AND WIGGINS
Splittorf Magnetos, Splittorf Spark Plugs,
Diamond Tires
Sixth and Oak Streets

Bailey's Tire Shop TIRE DOCTORS
In the Triangle
STARK AT 12TH
Retail Distributors Firestones and
Goodyear Tires, Tubes and Accessories
COOK & GILL CO. SATISFACTORY
409 Davis Street Battery Charging MOTOR CAR
REPAIRING

CHANDLER See the Chandler Four-Passenger Roadster
GERLINGER MOTOR CAR CO.,
BROADWAY AT OAK ST.
Chalmers Six-30 5 passenger \$1250
Six-30 7 passenger \$1350
F. O. B. Detroit
H. L. KEATS AUTO CO.,
Broadway at Burnside. Broadway 5368

Edwards' Tire Shop Vulcanizing—Tire Repairing
331 ANKENY—Broadway 1034, A-1133
Goodyear Service Station, Ajax Distributors
Francis Motor Car Exchange
Phone E. 1199—E. 13th at Hawthorne

Grant Six Overhead valve motor. No finer motor from the standpoint of all-around efficiency has ever been built.
W. C. MANLEY AUTO CO.,
11th and Oak at Burnside. Road. 217.
HUDSON-Super-Six
"Super—means superior—where others are inferior"
BOSS & PEAKE AUTOMOBILE COMPANY
615-617 Washington Street

HAWTHORNE VULCANIZING WORKS
Guaranteed tire repairing of every description. All standard brands of new tires and tubes sold. Also second-hand and double-tread tires.
GOODYEAR SERVICE STATION. Street 890. 405 Hawthorne Avenue.
Haynes H. L. MANN MOTOR CAR CO.
59 NORTH 23D MAIN 299

Hupmobile A WONDERFUL CAR IN PERFORMANCE.
MANLEY AUTO CO.,
11th and Oak at Burnside. Road. 217.
Capacities, 1, 1½, 2, 3½, 5, 5½, 6½, 7½
Tons. Complete Stock Repair Parts,
F. C. ATWELL, Sales Agent
Mack & Saurer MOTOR TRUCKS Washington at 21st. Tel. Mar. 440

MAXWELL "It scorns its Loads on Oregon Roads."
BOSS & PEAKE AUTOMOBILE COMPANY
615-617 Washington Street
National National cars of today represent unquestionably the highest standard in motor cars.
MANLEY AUTO CO.,
11th and Oak at Burnside. Road. 217.
Distinctive High Grade. Light Weight.
Oldsmobile OLDSMOBILE CO. OF OREGON
24 Couch and Couch
Phone Broadway 1640
Owen Magnetic Gibson Electric Garage &
Storage Battery Co.
144 Twelfth Street

Republic CAPACITY IN TONS
\$820 \$1325 \$1525 \$1825 \$2875
Prices Delivered at Portland and
ROBERTS MOTOR CAR CO., Park and Flinders Sts.
Smith Form-a-Truck BROADWAY AT OAK
Some unoccupied territory; open; write for proposition
Distributors for Oregon
Moreland Distillate, ¾ ton to 5 ton. Vim Delivery ¾
ton capacity.
McCRAKEN MOTOR COMPANY
Main 9019 445 Stark Street

Trucks U. S. L. and
Diamond Grid
Batteries
**Van Matre Storage
Battery Co.**
32 North Broadway—Sales and Service
Expert Advice About Your Battery Freely Given

Velie The Biltwell Series represents the latest and best in motor
cars. New value at medium prices.
D. C. WARREN MOTOR CAR CO.
55-60 N. 23d Street. Phone Main 780
Let us do your tire repairing. All our work is absolutely guaranteed. Our prices are always right. We sell all leading brands of tires and tubes, gasoline, oil, and tire gundries.
VULCANIZING VULCANIZING CO. 34 Third St.
Phone Broadway 476.
White Pleasure Cars and Motor Trucks — The
White Company, Park and Couch Streets

Willard We Stock Them. We Repair Them.
We Charge Them.
Free Advice and Inspection.
AUTO ELECTRIC EQUIPMENT CO.
Sixth and Burnside Streets

FORD LISTEN!
You can sell Ford owners and Truck prospects a
1½ Ton Ames Worm Drive Truck Attachment
For \$435.00
This is the only method of making a modern, efficient truck out of a Ford or used car.
And the salvage is \$67—\$55 for the rear axle and \$12 for the torsion tube and propeller shaft.
This gives the owner a 2000 to 3000 pound capacity truck with
PRESSED STEEL FRAME
Not cast steel.
WORM DRIVE
61% of all trucks being sold today are worm drive.
All Working Parts Enclosed in Oil Bath.
NO CHAINS NO SPROCKETS NO NOISE
Get Into the Truck Business—Be Ready for the Profits
Attach yourself to the right attachment—the modern efficient 1918 Ames
Worm Drive Way.
Any second-hand car can be used with this. It has solved the used car problem for our own retail department. It will and can solve yours. It means an increase of \$100 to \$300 in the value of on hand used cars.
We want red-blooded able men as local representatives in all unoccupied territory.
Write, phone or wire for special profitable agency proposition if you have confidence in yourself to do as well as all other special dealers are doing.
Do It Today—Tomorrow May Be Too Late—"Safety First"—Better Wire!
Northwest Auto Co.
Pacific Northwest Distributors
Portland, Oregon—Broadway at Couch Street F. W. Vogler, President C. M. Menzies, Sales Manager.