

Expert Advice For the Automobile Owner

Queries and Replies Covering Matters of Importance to the Man Who Runs a Car

Will you please explain what is meant by back firing?

Back firing usually implies that ignition takes place in the cylinder before the piston reaches the dead center of the compression stroke, thereby causing the crank shaft to reverse. If this occurs when the operator is holding the crank it produces a back kick which is liable to dislocate the shoulder or otherwise injure the arm.

The term back firing is also applied to an explosion occurring in the cylinder during the inlet stroke of the piston. This would ignite the gas in the intake manifold and mixing chamber of the carburetor. Should gasoline be near the carburetor it may cause a serious fire.

Will you please explain why valves are rebound by alternating rotary motion in view of the fact that valve tappets are arranged to give the valves a slightly eccentric rotary motion in service? Also, what are the objections to the continuous rotary motion in rebounding?

Valves are rebound by an alternating rotary motion to avoid scoring the seats or the valves themselves. You know that if you were sandpapering a finely finished piece of wood, such as an automobile body, preparatory to painting it you would not draw the sandpaper around in a continuous path, for that would leave ridges or scratches. The same applies to grinding in valves.

Can you tell me the best method of cleaning leather upholstery?

The best thing to apply to the upholstery if you would preserve its softness and keep it from cracking is a good leather dressing preparation. There are a number of good ones on the market. Water in which there is a little ammonia is also a good leather cleaner, and after using it a soft cloth should be employed to rub the surface of the leather dry.

What causes gasoline to drip from my carburetor for a few seconds after stopping the motor?

Probably the float is not adjusted properly.

Do oversized pistons tend to make a motor heat?

Yes, if they are so tight that they are stiff and create too high compression. If they allow the proper clearance they do not overheat the motor.

When removing a storage battery, if the generator wires were connected, why would not that prevent the windings from burning out?

Because if the generator is passing current through itself without any outlet the voltage builds up rapidly and at high speeds it can reach the point where the windings will be burned.

If I change a one and one-fourth inch carburetor to a one and one-half will it increase speed without making the intake manifold larger?

This depends entirely on how well the present size of carburetor and size and design of manifold are adapted to the engine in question. Ordinarily when the carburetor for touring is replaced by one of larger size more speed results.

What is a good flux for welding aluminum by the acetylene process?

It makes a great difference whether you are welding sheet aluminum or cast aluminum what flux you should use. Zinc chloride is used quite frequently, but the best satisfaction can be secured by purchasing from the large welding concerns the proper flux. These are secret formulas which have been worked out by the chemists of these concerns, and while you will have to pay a little more for them, the better results justify their use.

Our classified ads bring results

I BELIEVE IN THE UNITED STATES

By Jesse Lynch Williams of the Vigilantes.

Have you read "The American's Creed," that quintessence of Americanism, in 100 words, by William Tyler Page? The creed that won the \$1,000 prize out of 2,000 competitors?

Well, if you have not, you must. And if you have, you have not done enough. You should learn it by heart. Every child in the country should master it like the multiplication table. It will do far more good and, incidentally, it does not take so long. It should be made a part of the "opening exercise" at every school. It should be recited standing as with the Apostles' Creed in some of our churches.

Here it is. Examine it closely and you will see why it won the prize:

THE AMERICAN'S CREED:

"I believe in the United States of America as a government of the people, by the people, for the people; whose just powers are derived from the consent of the governed; a democracy in a republic; a sovereign nation of many sovereign states; a perfect Union, one and inseparable; established upon those principles of freedom, equality, justice and humanity for which American patriots sacrificed their lives and fortunes.

"I therefore believe it is my duty to my country to love it, to support its Constitution, to obey its laws, to respect its flag and to defend it against all enemies."

You see what Mr. Page has done? You see why this one out of the 2,000 contributed won the prize? Instead of attempting to say something "original," the author has done something far more important and permanent. He has drawn upon the immortal documents known to all of us, the Declaration of Independence, the Constitution of the United States, the federal oath of allegiance, Washington's farewell address, Lincoln's Gettysburg speech, one of Webster's speeches, Edward Everett Hale's story, "The Man Without a Country," "The Star-Spangled Banner," the army and navy regulations, the great seal of the United States, etc. He has culled from each of them and has made a composite, not of mere fine-sounding phrases, but of the fundamental faith, the sacred belief in all that is implied by the term "Americanism." It fairly reeks with Americanism. And yet there is no blatant spread-eagle jingoism in this calm confession of faith. It is as dignified as it is sincere. It is a notable literary performance, because it is a great patriotic expression. And all in 100 words! A tour de force.

The author, it is interesting to note, is a descendant of a President of the United States, John Tyler, and also of a signer of the Declaration of Independence, Carter Braxton. He lives in Friendship Heights, Maryland, near Washington. He was born in Frederick, Maryland, the birthplace of Francis Scott Key, the author of "The Star-Spangled Banner" and was educated in Baltimore. This is a curious coincidence in view of the fact that Baltimore, the birthplace of our national song, offered this patriotic prize. It is hardly necessary to add that these personal facts were not known until after the award was made.

AT WAR WITH YOURSELF!

HELP NATURE TO DEFEAT THE DISEASE IN YOUR BODY.

Keep up the fight; do not give up. Nature is trying to serve you in conquering the wrongs that may exist. Red blood, vim, courage, vitality, all seem lacking. No wonder you are nervous and discouraged.

Why not call to your aid a strong, dependable ally? Dr. Pierce's Golden Medical Discovery has for nearly fifty years proven its merits as a most powerful tonic and blood builder to the many thousands who have been returned to good health by its use.

Clear the coated tongue, get rid of unsightly skin trouble. Let this remarkable remedy rid your body of the impurities of the blood, let it tone and strengthen you. It often cures the lingering chronic cough.

Dr. Pierce's Golden Medical Discovery is absolutely herbal, free from alcohol or dangerous habit-forming drugs. All druggists. Liquid or tablets.

PORTLAND, OREG.—"I certainly can recommend Doctor Pierce's Golden Medical Discovery. I had liver trouble so bad that I was just yellow and had indigestion, too. Also had woman's trouble, and I was weak and nervous. I decided to try Dr. Pierce's Golden Medical Discovery and his 'Favorite Prescription.' I took six bottles of each and was a well woman."

"My husband had trouble with his lungs. He was very weak. I gave him 'Discovery' and it cured him. I cannot speak too highly of Dr. Pierce's Remedies."—MRS. JOHN PATTERSON, 620 Kirby Street.

PORTLAND, OREG.—"For biliousness and torpid liver and to regulate the bowels, there is nothing that can equal Doctor Pierce's Pleasant Pellets. I have used them over twenty years and have always found them good."—A. W. HUMPHREYS, 109 E. 75th St., N.

All the manuscripts were of course submitted anonymously.

Now, Mr. Page has done his part. Mr. Henry S. Chapin, of New York, who suggested the idea, has done his part. Mr. Matthew Page Andrews, who engineered it, has done his part. The rest of us must do our part to make this patriotic effort effectual. With all due respect to our youthful training many of us were allowed to grow up with the idea that "our country" meant little more than the place where we happen to live. This mistake must never be allowed to occur with another generation. One does not think of one's family merely as the people with whom one happens to live! You "belong" to your family, your family belongs to you. And so with your country. One reason why this nation has been so slow to awaken to its peril and its responsibilities is, or was, our deplorable lack of national consciousness. We are now, however, at the dawn of a new era. Probably there is not a man, woman, or child in the United States, provided he be in his right mind, who has not today a different feeling, a stronger reaction to the words, "my country," than three or four years ago.

It was for the furtherance of this feeling that this project of an American creed was originated. It was formally accepted in the name of the United States government by the speaker of the house of representatives on April 3 and by the United States commissioner of education. If properly disseminated the patriotic effect should be enormous. It might be well for the churches to take it up as well as the schools. Department stores should be willing to print it in their advertisements as they do appeals for Liberty bonds. It should appear on theatrical programs, baseball scorecards, magazine covers.

Meanwhile Mr. Charles B. Falls, the artist, is making a dignified decorative border to be reproduced with the creed for the use of schools and in small sizes for post cards.

Lamps for the Eyes.

A new optical instrument consists of a high-powered incandescent lamp which can be taken into a person's mouth to illuminate his eyes through the retinas, enabling them to be examined through the pupils.

TRACING EVOLUTION OF BAR

In Old Rome It Had Its Origin In Relations Existing Between Patron and Client.

The Roman bar, writes S. P. Scott in Case and Comment, deduced its origin from the intimate association of patron and client in the days of the republic. This relation, founded upon mutual support and assistance, bore a considerable resemblance to that of lord and vassal during the middle ages without, however, including the oppressive restrictions imposed upon the latter by the laws of feudalism. Among the many duties required of the patron was that of transacting the legal business of his clients and appearing for them in court. This service was at first entirely gratuitous, but subsequently, when the ties of hereditary connection became less binding, and consultation with patrons was abandoned by their clients for the advice of jurists possessed of greater legal erudition, a voluntary fee, called an honorarium, was expected. The amount of this was established by custom, and in the course of time, when excessive gifts of this kind were virtually demanded, all fees were regulated by statute.

After law had developed into a science the profession became recognized as a distinct calling, and legal procedure having been systematically organized, representation of parties in court was successively effected by three classes of persons—procurators, cognitors and advocates.

IDEAL SITE FOR REST CURE

City of Santa Cruz de la Sierra, in Bolivia, Practically a Place of Absolute Silence.

"The only tropical city of Bolivia, it stands some 1,500 feet above sea level so far from the outside world that mail deposited on January 7 reached New York on March 11. Of the 19,000 inhabitants of Santa Cruz de la Sierra 11,000 are female." Harry A. Franck writes in the Century.

"It is a city of silence. Spreading over a dead flat, half sandy, jungled plain, its right angled streets are deep in reddish sand in which not only its shod feet, by no means in the majority, though the upper class is almost foppish in dress, but even the solid wooden wheels of its clumsy ox carts make not a sound. There is no modern industry to lend its strident voice, though the town boasts three 'steam establishments' for the making of ice, the grinding of maize and the sawing of lumber, and every street fades away at either end into the whispering jungle. Narrow sidewalks of porous red bricks, roofed by the wide overhanging eaves of the houses, often upheld by pillars or poles, line most of the streets. But these are by no means continuous, and being commonly high above the street level and often taken up entirely, especially of an evening, by the families, who consider this their veranda rather than the pedestrian's right of way, the latter generally finds it easier to plod through the sand of the street itself."

Classified Advertising

FOR SALE

O. & C. GRANT LANDS—Blue print plat showing lands in Josephine county, \$1.50. Address A. E. Voorhies, Grants Pass. 1f

FOR SALE—Good modern house, close in, north side. Inquire No. 2333, care Courier. 28tf

HEMSTITCHING and pecot edge, 10 cents per yard. Mail orders will receive prompt and careful attention. The Vanity Shop, Medford Oregon, 114 West Main. 07tf

FOR SALE CHEAP—Three-quarter ton truck, in good condition. New tires. Churchill and Maxwell. 1f

FOR SALE—Team of bay geldings, four and five years old, weight 3200 pounds, well broken, unblemished, price, \$400. Unblemished bay mare, eight years old, weight 1600 pounds, with colt by her side, price \$225. Mrs. C. C. Hammerly, R. F. D. No. 2, Grants Pass, Ore. 79

FOR SALE—A five passenger, four cylinder Buick, at a bargain. W. G. Smith, Wolf Creek, Ore. 79

SOLD MY PLACE and have farm implements, household furniture and piano for sale, also team black horses. Address A. T. Martin, Hugo, Ore. 79

FOR SALE OR TRADE at a bargain, 40-acre stock ranch, good out side range, buildings on place, good timber. Write Box 312, Grants Pass. 80

FOR SALE—Chester White pigs, 8 weeks old, \$10 each. Henry Steger, Box 46, Merlin, Ore. 82

FOR SALE—Six pigs, just weaned, price right for quick sale. Inquire one-half mile east Booth ferry or write W. C. Runyan Rt. 2. 83

TO RENT

FURNISHED ROOMS—Large, comfortable and conveniently located. 411 C street. 84tf

PARTLY FURNISHED cottage for rent, 50 feet from pavement, also unfurnished cottage on pavement, \$8 per month. Inquire A. E. Voorhies. 92tf

FOR RENT—Six-room house, 727 North Fifth street, partly furnished, bath, sleeping porch, acre of ground, poultry yard and house; also 4-room house, 321 Rogue River Ave., sleeping porch, poultry house, three fourths acre. Get key from Mrs. Jennie Moss. 94

FOR RENT—18 acres, house, barn, crop in, corn, oats, potatoes, etc. very low rent. Jersey cow for sale, \$75. C. W. Johnson, Rd. 1, two blocks from city limits on Merlin road. 79

WANTED

STENOGRAPHER—Experienced, wants work. Address Irena Cummings, Grants Pass. 75

HIGH SCHOOL GIRL wishes employment, clerking preferred. Address Box 392, or phone 231-J. 84

The California and Oregon Coast Railroad Company

TIME CARD

Daily except Sunday
Effective May 1, 1918

Train 1 lv. Grants Pass. 1:00 p. m.
Train 2 lv. Grants Pass. 3:00 p. m.

All trains leave Grants Pass from the corner of G and Eighth streets, opposite the Southern Pacific depot. For all information regarding freight and passenger service call at the office of the company, Lundberg building, or phone 131 for same.

Township Maps

Showing Oregon and California Homestead Lands, open to filing April 20, 1918, \$1 per township.

Please give township and range.

DOUGLAS ABSTRACT CO.,
Roseburg, Oregon

BUY

War Savings Stamps

ROGUE RIVER WATER COMPANY

ATTORNEYS

H. D. Norton, Attorney-at-law. Practice in all State and Federal Courts. First National Bank Bldg.

COLVIG & WILLIAMS, Attorneys at-Law Grants Pass Banking Co Bldg. Grants Pass, Oregon.

E. S. VAN DYKE, Attorney. Practice in all courts. First National Bank Building.

O. S. BLANCHARD, Attorney-at-Law Golden Rule Building. Phone 270. Grants Pass, Oregon.

BLANCHARD & BLANCHARD, Attorneys, Albert block. Phone 235-J. Practice in all courts; land board attorneys.

VETERINARY SURGEON

DR. R. J. BESTUL, Veterinarian Office in Winatrust Implement Bldg. Phone 113-J. Residence Phone 305-R.

PHYSICIANS

L. O. CLEMENT, M. D.—Practice limited to diseases of the eye, ear, nose and throat. Glasses fitted. Office hours 9-12, 2-5, or on appointment. Office phone, 61; residence phone 359-J.

S. LOUGHRIDGE, M. D. Physician and surgeon. City or country calls attended day or night. Residence phone 69; office phone 132. Sixth and H. Tuffa Building.

A. A. WITHAM, M. D. Physician and surgeon. Office: Hall Bldg., corner Sixth and I streets. Phone: Office 116; residence, 283-J. Hours, 9 a. m. to 4 p. m.

DR. J. O. NIBLEY—Physician and surgeon. Landburg Building. Surgeon Utah-Idaho Sugar Co. Health Officer. Office hours, 9 to 12 a. m. 1 to 5 p. m. Phone 310-J. 84tf

PHOTO STUDIO

THE PICTURE MILL, open daily 10 a. m. to 5 p. m. For Sunday sittings call MRS. 233-R or residence 140-J. 78tf

DENTISTS

E. C. MACY, D. M. D.—First-class dentistry. 109½ South Sixth street, Grants Pass, Oregon.

MUSICAL INSTRUCTION

J. S. MACMURRAY, teacher of voice culture and singing. Lessons given at home of pupil if requested. Address 716 Lee St. 851tf

DRAYAGE AND TRANSFER

COMMERCIAL TRANSFER CO. All kinds of drayage and transfer work carefully and promptly done. Phone 181-J. Stand at freight depot. A. Shade, Prop.

F. G. ISHAM, drayage and transfer. Sales, pianos and furniture moved, packed, shipped and stored. Phone Clark and Holman, No. 50. Residence phone 124-R.

THE WORLD MOVES; so do we. Bunch Bros. Transfer Co. Phone 397-R.

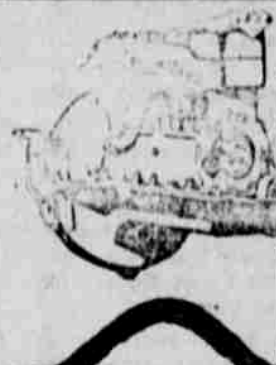
Keep your money at home

If you are building use

Beaver Portland Cement

which is manufactured at Gold Hill, Oregon, and is guaranteed by the manufacturers to be strictly high grade in every respect. You can buy this from your local dealer—The Oregon Cement Sewer Pipe & Tile Co.

Beaver Portland Cement Co.



"Zerolene is the Best"

—Say leading motor car distributors, because the records of their service departments show that ZEROLENE, correctly refined from selected California asphalt-base crude, gives perfect lubrication with less wear and less carbon deposit. Most cars are now lubricated with ZEROLENE because their owners have learned through experience that there is no better oil.

Zerolene is the correct oil for all types of automobile engines. It is the correct oil for your automobile. Get our lubrication chart showing the correct consistency for your car.

At dealers everywhere and Standard Oil Service Stations.

STANDARD OIL COMPANY
(California)

ZEROLENE

The Standard Oil for Motor Cars

C. D. FIUS, Special Agent
Standard Oil Co., Grants Pass

O. & C. Grant Land Blue Print Maps

Josephine and Curry Counties\$1.50
Jackson County\$1.50

Both maps for \$2.50

Printed from tracings made by M. J. Anderson Jr.

Mailed prepaid on receipt of price

A. E. Voorhies

Grants Pass, Oregon