

Auto Goes into Quiver

An automobile accident that came near proving serious occurred last Saturday when an automobile belonging to W. C. Wiltsey and occupied by him and Walter Eaton, the garage man, ran into a deep culvert near town.

Mr. Eaton was adjusting the carburetor at the time and the machine was running rather fast on that account. He was riding on the front fender in making the adjustments, and when the machine hit the de-

pression he was thrown rather forcibly. The result of the accident was that the right front spindle was broken off clean, the wheel itself not being damaged. It was necessary to order the new part from the factory.

Declamatory Contests

The three declamatory contests which were held last Saturday proved to be very notable events, the best talent in the state being present. The oratorical contest was held at Sidney, and in it Lincoln took first honor and Sidney second. In the

dramatic contest, held at Whahoo, Pierce won first place and Whahoo second; in the humorous contest, held at Arnold, Crawford took first and Alliance second. Alliance was represented by Miss Hannah Cotant in the humorous division, and in the dramatic department by Miss Lura Hawkins, both of whom did some fine work and who caused the judges to consider seriously before making the awards. Miss Cotant and Miss Hawkins made chapel talks Wednesday morning regarding their trips and experiences.

Wedding Bells

Miss Mulda Peterson and Mr. Alva Bjornvall were married last Thursday. The bride is a daughter of F. F. Peterson the ranchman, and she is at present postmistress at Thelma, in Garden county. She is a very popular lady and has many friends in her home county. Mr. Bjornvall came to this country several years ago, and is now a prominent ranchman in Garden county. They will go to Sweden shortly on their wedding tour, and will remain there for the next two years.

A Nervous Woman Finds Relief From Suffering.

Women who suffer from extreme nervousness, often endure much suffering before finding any relief. Mrs. Joseph Snyder, of Tiffin, O., had such an experience, regarding which she says:

"Six months I was bedfast with nervous prostration. I had sinking spells, a cold, clammy feeling, could not stand the slightest noise. At times I would almost try to pieces; stomach very weak. My husband insisted on my taking Dr. Miles' Nerve, and I began to improve before I had finished the first bottle until I was entirely cured."

MRS. JOSEPH SNYDER,
262 Hudson St., Tiffin, Ohio.

Many remedies are recommended for diseases of the nervous system that fail to produce results because they do not reach the seat of the trouble. Dr. Miles' Nerve has proven its value in such cases so many times that it is unnecessary to make claims for it. You can prove its merits for yourself by getting a bottle of your druggist, who will return the price if you receive no benefit.

MILES MEDICAL CO., Elkhart, Ind.

Expert Advice For the Automobile Owner

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

When adding electrolyte to a storage battery, should it be done when the battery is discharged, and, if so, how can one tell when the proper amount has been added?

Distilled water should be added before the battery is placed on charge. The solution should cover the plates. In some batteries the level is one-half inch higher than the tops of the plates. A battery can be tested at any time, and obviously the only way to tell whether it is fully charged or not is to test it in some manner, the gravity method usually being used.

What part does glycerin play in an anti-freeze solution?

Glycerin is used in anti-freeze solutions for the reason that it prevents the alcohol in such solutions from evaporating rapidly and thus preserves the power of the mixture to resist the cold.

I would like to have you tell me why I have trouble in starting my car when warm. Several times I have had to get help from some one who could spin it. Spinning always starts it, but this I am unable to do. It always starts readily if thrown into high when rolling down a grade.

The fact that you have no trouble in starting the motor when cold would indicate immediately that the trouble is not in the ignition system. If you will try a slightly richer mixture on the carburetor it may relieve the trouble. Another possible cause is that the valves may be adjusted too close so that when cold they close, but when warm there is an air leak that dilutes the mixture. Carbon trouble also acts this way at times, and if the motor has not been cleaned out lately it is suggested that the carbon be removed. Another possible feature which does come under the head of ignition is that the dry batteries may be weak.

In drilling holes in pistons to make them lighter how much can be taken off and how should they be drilled?

You can safely drill eight three-eighths inch holes equally spaced around the piston. In drilling place a cylindrical block of wood in the piston, the wood just fitting. This will prevent the metal from cracking. You can hold the piston under the drill with your hands.

Would a good iron rivet be suitable to rivet a front cross member to the frame on a light car or should it be put on with steel rivets?

Good iron rivets would be suitable to use on the frame of a light car. The principal stress endured by these rivets is one of sheer through the tendency to rack on the part of the frame. A great deal depends upon the manner in which the riveting is done. For instance, it has been shown in experimenting that a rivet is 6.5 per cent weaker in a drilled hole than in a punched hole and that by rounding the edge of the rivet hole the apparent shearing resistance is increased 12 per cent. It is also true that shearing resistance is probably less for double than for single sheer, and this is probably due to the unequal distribution of the stress on the two rivet sections. Experiments on the shearing strength of iron and steel rivets would indicate that the proportion of iron to steel is as 19 to 22.1. This ratio is said to be valid only if the sheer is in a plane perpendicular to the direction of rolling, which would be approximately the case in your cross frame connection.

What are the advantages and disadvantages of the disk friction chain drive compared with other types of transmission now more commonly used?

The advantages of the friction transmission are that it offers an infinite number of gear ratios, is silent, cheap to manufacture and simple. The disadvantage is that the friction disk must be renewed every few thousand miles. This is a small matter, but worth noting, and the amount of horsepower it will transmit under the conditions found in automobile design is limited. Therefore it has never been used to any extent on large cars, but has found favor on some cars of medium size and on more small cars.

The gear set of my car is of the planetary type. When the low speed pedal is pushed down to start there is a knock heard from the gear set at regular intervals. What is the cause of it?

Owing to the speed of the motor in starting out on low speed the knock you speak of possibly is at the outer bearing or transmission shaft bearing, where the car is cranked. The dust and dirt continually working in this babbitt cut out the bearing sufficiently to produce a knock at this point. This bearing has a babbitt lining and must be poured to fit the shaft.

Please explain whether there would be any advantage gained by fitting aluminum pistons?

Aluminum pistons are lighter and reduce the vibration because of their light weight. The expansion of aluminum under heat is greater than that of cast iron, giving great difficulty in determining clearance.

Will slightly rotating the poppet valves of a motor prevent the valves from improperly seating and carbon from forming on the valve seats?

Oscillating the valves will tend to keep the seats clean and thus the valves will be found to seat more uniformly. Naturally, this will also prevent the accumulation of carbon in any quantity on the seats.

My motor skips when running slowly or pulling hard on high gear if the spark lever is advanced more than half way on the quadrant. As soon as I retard the spark below this point the engine picks up and will pull as well as it ever did. Why is this? It is not the fault of the carburetor, as I have tried all kinds of adjustments and have operated it under every condition.

If the magneto is correctly timed it is probable that the trouble is due to weak magnets. When the spark lever is advanced all the way the spark actually occurs when the armature is at the edge of the magnetic field instead of being in the position where the strength of the field is greatest. Therefore if the magnets are weak the effect must first be felt at the weakest point in the field, and that may be either a position of great advance or retard, depending on how the magneto is linked up. Recharging the magnets should remove the trouble.

I have a bent steering knuckle. Should this be straightened when cold or hot?

The knuckle should be straightened when hot. It is better to put in a new one, however, as it is difficult to straighten it so that the wheels will run true. If the bend is in the spindle there is no possibility of straightening it satisfactorily, and even if only the arm is bent it will be hard to true it up.

Are the so called anti-rust preparations injurious to the cooling system?

We have no reports where any of the preparations which are on the market that are sold especially for automobile radiators have done any harm. There are occasions, however, where boiler compounds have been used which contain corrosive substances that have acted injuriously on the radiator and water connections. For this reason before using any preparation it should be known that it is intended particularly for radiators and nothing else.

How far apart should the spark plug points be, using a high tension magneto?

The usual point clearance is one thirty-second inch, but many find that even a smaller clearance is better. If the plug points are too far apart they will soon be aware that something is wrong, as the motor will start to miss, particularly when the car is running slowly.

We would appreciate your telling us how to correct the oiling system in a new car which has given trouble since it left the factory. The car has been driven 3,000 miles, so by this time should be thoroughly "worn in." The trouble is that oil works up into the first and fourth cylinders.

Faulty piston rings seem to be the only condition which would give the oiling trouble you mention. It may be that the joints of the rings, which are of the ordinary eccentric type, have become aligned, leaving a passageway for the oil to enter the combustion space. Another possibility is that you have too much oil in the crank case, which causes a greater supply than necessary to be thrown up. It would seem that the best step to take would be to remove the pistons and examine the rings on the cylinders that give the trouble. The pistons can be removed by taking off the lower half of the crank case, removing the lower connecting rod bearing cap and withdrawing piston and connecting rod assembly. A replacement of the rings should eliminate the difficulty.

Can gas such as generated from carbide be used in an automobile engine?

Yes. Occasionally we hear of a motorist driving home on acetylene gas when his supply of gasoline is exhausted. The objection to the use of this gas is that it is much more expensive than gasoline.

The storage battery seems to charge on my car so that it will furnish current for the lights and start the motor; then suddenly it will become discharged. Where should I look for the trouble?

From the information you furnish it would seem that the battery is either completely discharged or you have a short circuit in the system. It would seem quite likely that it is the former, and if this is the case a thorough re-charge will remedy the difficulty unless the battery has been left in the discharged condition for too great a length of time. If so, the battery will probably require overhauling. The symptom for this trouble is exactly what you describe—the battery starts the motor and also gives a very bright light for a few moments and then apparently is dead.

Mummies of Peru.

Before taking leave of Cuzco, Peru, we went to see the very interesting collection of Inca relics in the private museum of a Peruvian doctor who has devoted many years of his life to Inca research. Ranged round the walls were mummies which had been taken from rock tombs. All had been buried in a sitting posture, and, judging by the horrible expressions of agony on the parchment skin, I should imagine that some of them, prisoners of war, I was told, had been entombed alive. The horror of those mummified faces and the awful contortions of the skeletons haunted me for a long time, nor shall I ever forget the sight.

One or two of the skulls bore evidence of skillful surgery, star shaped pieces of bone having been cleverly fitted in to repair damage done by the star shaped stone weapons of the period. I did not measure those I saw in the museum, but one of the aforementioned stone weapons which we brought back to England from Cuzco measured four inches from point to point across the top—a truly formidable club.—Wide World Magazine.

They Feared the Dutch.

In 1673, in the old days of England's wars with the Dutch, the inhabitants of Sheringham, in terror of invasion by the Dutch forces, petitioned the lord lieutenant and deputy lieutenants of Norfolk. "Our Town," they said, "joynes upon ye Maine sea, and we are afraid every night ye enemy should come ashore and fire Our Towne when we be in our Bedds; for ye Houses stand very close together, and all ye Houses thatched with straw, that in one hours time ye Towne may be burnt, for we have nothing to Resist them But one Gunn, with a broken carriage and four Musquets, which we bought at our Owne cost and charges; which is a very small defence against an enemy; and likewise wee have no powder, nor shot for ye said Gunn, nor Musquets, when we stand in need." They therefore asked for a few more muskets, with powder and bullets. In granting this the authorities stipulated that Sheringham should not "imbecill ye said arms and ammunition."

Oliver Goldsmith and Powders.

April 4, 1774, died Oliver Goldsmith, in his forty-seventh year, at the height of his fame, as also of his embarrassments. Goldsmith's death was hastened, as some thought, by his taking against his apothecary's wish the famous specific, Dr. James' fever powder. One should be just to the powders. Goldsmith himself thought he had been given spurious and not the genuine powders, while Mr. Hawkes, his apothecary, declared the sick man had taken the right remedy in a wrong fashion and after Goldsmith's death published, in collaboration with the poet's other two physicians, "An Account of the Late Dr. Goldsmith's Illness So Far as Relates to the Exhibition of Dr. James' Powders." Death pays all debts. In no other way possibly could Goldsmith have cleared himself.—London Spectator.

A Costly Quarrel.

Rowley, the English violinist, was hard to beat in his perseverance against one who had incurred his ill will. Rowley had a quarrel with a horse dealer named Brant. It was a trivial matter, but Rowley took the next house to Brant, set up a piano, bought a cornet and proceeded to make insomnia for Brant. After one or two assault cases in court Brant moved. Rowley bought out the next door neighbor and followed with piano and cornet. Brant went to law, but found he could do nothing. Failing, he took a detached house. Then Rowley hired brass bands and organs and assailed him. This was actionable, and Rowley paid \$5,000 for his revenge.—London Tatler.

The Gospel Oak.

In the village of Polstead, Suffolk, England, stands a famous oak which the rector has proved to be 2,000 years old. The tree has a girth of thirty-six feet and has been known always as the gospel oak, since under it the first Christian missionaries preached to the heathen Saxons thirteen centuries ago. This event is commemorated each year by a special service held under the tree.

Early Soporifics.

Honcho, a Chinese physician who lived in the third century, gave his patients a preparation of hemp, whereby they were rendered insensible during surgical operations. The soporific effects of mandrake are mentioned by Shakespeare.

Retreating in Disorder.

"Who was that tough looking chap I saw you with today, Hicks?" "Be careful, Parker. That was my twin brother." "By Jove, old chap, forgive me! I really ought to have known."—Kansas City Times.

Wrong Either Way.

Isabel—I'll never have another photograph taken. Dorothy—Why not, dear? Isabel—Oh, if it looks like me I don't like it, and if it flatters me my friends don't like it!—Exchange.

A Woman's Way.

"Your doom is sealed!" cried the villain. "Ha," laughed the heroine defiantly. "I guess I can steam it open!"—Chicago Herald.

The Difference.

"Your cook is just like one of the family, isn't she?" "Dear me, no! She never would eat warmed over dishes."—Baltimore American.



SOME OF THE REASONS WHY YOU SHOULD BUY AN

Automatic Refrigerator

AND SOME OF ITS FEATURES:

The Never-Clog Automatic Trap, electrically welded steel wire shelves, Water Bottle Holder on the top, Vitrified Porcelain Lined, Built-in Water Cooler, with faucet on the outside. The Refrigerator is built of Ash, Golden Oak finish.

Another point to consider in purchasing a refrigerator is the wall insulation. The "Automatic" has eight walls, which makes it heat resisting and cold retaining, and assures an economy of ice and a cold, dry temperature in the food chambers. These chambers are large enough to hold a great amount of food, and the ice chamber will hold the full capacity.

We want to show and demonstrate to you this really remarkable refrigerator. Come into the store any time; a look costs you nothing and we'll be pleased to explain it to you.

Miller Bros.
HOUSEFURNISHERS



IN THE Booster Club Campaign

WE SHALL GIVE THE FOLLOWING PRIZES TO BOOSTERS AND CUSTOMERS:

- \$200.00 Gold.
- Four 42-piece dinner sets.
- Five Elgin Gold Watches.
- 396 Pieces of Simeon L. & Geo. H. Rogers Table Silverware.
- One Gold Ring to the winner of the Baby Show.
- The capital premium is for the Best Booster.
- The dinner sets are for ANYBODY.
- The table silverware is for the Patrons' Clubs. (Join one.)
- One Elgin gold watch is open to everybody.
- The other Elgin gold watches are for Boosters.

Beginning Friday of this week we are going to give Booster Coupons with every cash purchase made at or through our store. A 5-cent purchase will secure five coupons, a 10-cent purchase, ten coupons, etc. Coupons will be given at the same rate for settlement of accounts. The Capital Prize will be given to the Booster who, at the close of the Booster Club Campaign, has had the most coupons deposited to his or her credit, in the ballot box at our store.

Each Booster will have a Patron Club of ten members, and each week the different Patron Clubs will compete for prizes of Simeon L. & Geo. H. Rogers table silverware.

There will be lots of fun and excitement. But better than this will be the correspondence course for each Booster, a course that will not only direct the work, but give a training in practical salesmanship and business relations that will be of great value in after life.

Each Wednesday there will be a sale on some special article, on which we shall give extra coupons. This article will be changed from week to week. WATCH for the Wednesday specials.

During the closing week of each special feature of the Booster Club Campaign there will be a big bunch of coupon bargains, when extra coupons will be given on all cash purchases. These weeks will come at four-week intervals. Watch for them, and make heavy purchases then.

We will give 100,000 Booster Coupons to the couple who will be married in our store. This must be told us in advance, that we may invite your friends.

Next week the "Big Booster" will be here. Come to our store and see him; find out all about the Booster Club, and then join. There is no initiation fee, and no dues. This is an opportunity that may never come your way again.

We want a thousand or more persons to become active helpers for the members of our Booster Club. In order that you may help your favorite, we shall give Booster Coupons free to each person who comes to our store on Saturday, May 29th, and registers in a book provided for that purpose.

"The Right" Clothing Store

ALLIANCE, NEBRASKA

THE BOOSTER STORE

ROY BECKWITH, Prop.