

# BEWARE THE EMPTY TANK

A Dangerous Bomb It Can Be When Filled With Gasoline Vapor.

Most persons believe that gasoline in its liquid state is very explosive, but gasoline is quite harmless except when exposed to a naked flame, when the liquid will burn very rapidly, but not necessarily explode, says William H. Stewart, Jr., of the Stewart Automobile school. A lighted match may readily be extinguished by dipping it into the fluid if done quickly.

Gasoline tanks such as used in automobiles may easily be soldered with the hot flame of the blow torch if the tank is partly filled with gasoline. However, if the tank is almost emptied of its contents, leaving only enough of the fluid to form a gas, the tank becomes a most dangerous bomb. In fact, a number of persons have been killed by taking the precaution to empty the tank before soldering, not knowing they were thereby creating a greater source of danger.

Raw gasoline burns very slowly. If it were not for the vaporizer or carburetor on the automobile engine the gasoline would be practically useless. In other words there must be a proper mixture of gasoline and air in order to get an explosion. This is the function of the carburetor, namely, to reduce the liquid gasoline to an explosive mixture. This is done by two main controls, namely, that of the gasoline and that of the air. If too much air is admitted and not enough gasoline a lean mixture is obtained. If too much gasoline and not enough air then a rich mixture results. In either case the motor will not approximate its horse power. Not until the proper proportion is reached will it develop the greater efficiency.

## WHERE SCHOOLS FALL DOWN.

Teacher Says They Neglect a Rule That a Rat Trainer Knew.

"I spent four of the best years of my young life in one of the best normal schools in this or any other country, trying to learn how to teach school. My teachers were among the best men and women I have ever known, and they were all teachers of long and wide experience who did their best with me to help me become what I greatly wished to be, namely, a first class teacher. After they got through with me I taught school and superintended teachers for many years; and after that it was my fortune to travel this country over, visiting schools and seeing hundreds and thousands of teachers, of all sorts, sexes and sizes, at work in school rooms; and I am here to state that I learned more of what I firmly believe to be the fundamental facts regarding school teaching from that common rat teacher than I ever learned elsewhere in all my life! And I believe that, today, the real reason why our schools are not doing better than they are—why they are not educating more of the children they are trying to teach and are paid for teaching—is because they fail to understand and comprehend those simple pedagogical principles which this common man so simply yet forcibly stated."

This is what William H. Smith writes in the American Magazine at the conclusion of a description of an itinerant German and his troupe of trained rats. During a discourse on the art of rat training the German had said:

"Und dot's yust der difference petween a goot rat-deacher and a shoo-deacher! A shoo-deacher, he dinks he can teach any child anydinks vat he blenses, but he couldn't do it! Schilddren is yust like rats. Some schilddren vill learn von ding, and some odder schilddren vill learn some odder dings; and ven a man vas a goot shoo-deacher he vill find out first vat a schilddren can learn, and teach him dot dings, and not vaste his time trying to teach him var he don't neffer can learn."

And it is the failure to understand this pedagogical principle, says Mr. Smith, that makes schools weak where they should be strong.

## FOREST NOTES.

Connecticut has one and a half million acres of timberland, mostly in farmers' woodlots.

India is developing an important turpentine industry, though it does not yet supply the home market.

Only one wood, Spanish cedar, (*cedrela odorata*) is commonly used for cigar boxes. Sometimes a cheaper wood may form the basis of the box, with paper-thin veneers of the tropical cedar over it.

It has been suggested that certain kinds of timber on the national forests be reserved for the needs of the navy. This recalls the fact that the first forest reservations in this country were made for naval material.

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# World Noted Sculptors Produce Marvels In the Plastic Art

Superb Decorative Statuary Fast Assuming Form at the Panama-Pacific International Exposition

PRODIGIOUS works of sculpture are now being completed in the sculptural warehouses of the Panama-Pacific International Exposition. Many of them have already long been finished. The works are remarkable for imagery and vigor and for beauty of conception.

Not for many years will the world be enabled to enjoy so marvelous a collection of the works of contemporary sculptors. The World's Columbian Exposition at Chicago first proved that the greatest talent might be employed to produce even work of temporary value. Since then more and more attention has been given at each succeeding exposition to sculpture as a form of decoration, and now the Panama-Pacific International Exposition promises to surpass even Chicago's exquisite display.

Viewing the superb groups and individual pieces of statuary, the visitor feels like a Lilliputian who has been transported into a land of giants. Some of the great groups are of colossal dimensions. Many of these great pieces of statuary will adorn huge triumphal arches and when so placed will seem of natural size to the visitor who stands upon the floors of the exposition courts.

We present upon this page some classical examples of the sketch models and the enlarged figures. A number of America's foremost sculptors have been engaged in the production of these figures. Among the sculptors are many names widely known both in America and abroad. The list includes A. Stirling Calder, acting director of sculpture; Albert Jaegers, Furio Piccirilli, Leo Lentelli, Robert I. Aitkin, Adolph A. Weinman, Isadore Konti, Evelyn Beatrice Longman, Mrs. Harry Payne Whitney, Douglas Tilden, Gutzon Borglum, H. A. MacNeil, James E. Fraser, Charles C. Rumsey, Halg Putnam, Paulanship, F. G. R. Roth, Charles Nelhaus, D. C. French, Herbert Adams and others.

The sculpture of the Panama-Pacific International Exposition will carry out the note of the exposition in celebrating the opening of the Panama canal. The spirit of achievement as exemplified by America's work will be idealized.

When the sculptors began to plan their work they had as an inspiration an undertaking which has appealed to the imagination of the world for centuries. In the opening of the Panama canal they saw the final result of four centuries of effort to secure a passageway between the oceans. The statuary will reproduce upon a wonderful scale the historic incidents connected with the Panama canal. Figures of the early explorers of the oceans, groups symbolizing the effort to pierce the rocky backbone of the continents, compositions designed to symbolize occidental and oriental themes, colossal representations of struggle and achievement, will illustrate many of the dramatic topics inseparably associated with the search for a passageway to the Pacific and with the final building of the canal at Panama.

And while the sculptors are fast completing their splendid productions, which reveal the ideals of sculptors of the present day, other work upon the exposition is fast progressing. When the gates of this, America's Panama canal celebration, swing open to the world on Feb. 20, 1915, it will be upon a fully completed and perfected spectacle, the setting of the greatest international celebration that the world has ever beheld.



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"SUNSHINE" AND "SPRING" AT THE PANAMA-PACIFIC INTERNATIONAL EXPOSITION, SAN FRANCISCO, 1915.

THE large group at the right is "Spring," by Furio Piccirilli, one of the groups in the Court of the Four Seasons at the Panama-Pacific International Exposition, San Francisco, 1915. At the left is "Sunshine," by A. Jaegers, who has created a companion statue, "Rain."

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## NOTICE TO CREDITORS

Notice is hereby given that the undersigned, Johanna S. Kruger, has been duly appointed executrix of the estate of Robert August Herrman Kruger, deceased, and that letters testamentary have been issued to her out of the County Court of the State of Oregon, in and for the County of Coos.

Now, all persons having claims against said estate are hereby notified to present the same with proper vouchers, within six months from the date of this notice, to me at the office of James T. Hall, Room 11, Eldorado Block, Marshfield, Oregon, duly verified as by law required.

Dated this 16th day of March, 1914. JOHANNA S. KRUGER, Executrix of the estate of Robert August Herrman Kruger, deceased. First publication March 16 and last publication April 13, 1914.

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