

ROMANS BROUGHT BACK CEMENT PROCESSES LOST DURING DARK AGES

Thousands of years ago man learned to build the first masonry structures—rude huts of stone bound together with clay mortar. For a long time this practice continued. Then, finally, man learned to improve upon the mortar and made it by mixing lime with other substances. Such a mortar as this last was in use by the Egyptians hundreds of years before the Christian era.

The Romans, however, found a still better cement material could be made by mixing slaked lime with volcanic ash, the latter material being found in large quantities in southern Italy. They used this natural cement in making many concrete structures in the days of the old Roman republic. The marks of the forms used

largely empirical—he knew that if he took certain kinds of materials and subjected them to certain processes that he obtained a product which served his needs, but he did not fully understand the chemistry of his processes. He really discovered that an impure limestone containing a certain amount of clayey matter had decided hydraulic properties when burned. This "hydraulic lime" was the first advance in many years—awakened new interest in the development of better building materials.

Although Smeaton was the first to develop cement in modern times he was not the first user of cement. The Carthaginians built an aqueduct some 70 miles in length in Northern Africa long be-

GREATEST MEETING IS PREDICTION

A. A. A. and N. M. A. to Meet Together for First Time

WASHINGTON, D. C., June 28.—Plans for holding what is expected to be in number of delegates, enthusiasm and achievement the greatest meeting of motor car owners since the inception of the automobile have been completed, according to a bulletin just issued here by the national headquarters of the new American Automobile Association.

This meeting of which so much is expected will be the first convention of the old AAA and NMA since consolidation of the two great national bodies was effected and will mark the beginning of the 23rd year of existence of the first named organization. It is stated, July 7th and 8th have been named convention dates and the Hotel Statler, Detroit, the place. More than 600 delegates, representing local motor organizations situated in every section of the United States, will attend, it is reported.

Not only will this be the largest convention of its kind in the annals of organized motordom, it is said, but it will formally mark the end of the bitter warfare that

has long existed among some of the country's great automobile clubs, many of which, already powerful and influential in their respective communities, will be even more so with the added strength of nation-wide organization.

Into this meeting will come, it is pointed out, the mammoth Ohio State Automobile Association bringing with it the splendid Cleveland and Cincinnati clubs, now in accord after years of antagonism. Also Louisville and Detroit club representatives to shake hands across the table and to work together for the betterment of laeol and national motoring.

Too, Indianapolis and St. Louis, which have been at outs for many moons, will again meet in friend-

ship, while Chicago and Baltimore will laugh as they figuratively bury the proverbial hatchet.

There will be delegates from Portland, Oregon, and from Portland, Maine; from staid old Philadelphia, from romantic New Orleans and from far away Honolulu. They will travel, in fact, from every community in the land of Uncle Sam where the language of motordom is spoken to be present in Detroit when President Thomas P. Henry calls the convention to order.

So far as the business of the convention is concerned, there will be the election of officers of the new organization, the official abandonment of obsolete policies and the adoption of new and more progressive ones.

There will be a thorough thresh-

ing-out of such matters as road building and roads legislation; uniform traffic laws, emergency road aid for members wherever they may be, improved system of map making and highway charting; traffic regulation, parking, taxation, gasoline prices and all the other subjects so close to the heart of the man who wants to get the greatest comfort and service out of his motor car at a minimum expense.

Plans for the reception and entertainment of the visiting delegates, says the AAA bulletin, will be in the hands of the Detroit Automobile club, one of the largest and most effective motor organizations in the world.

BOOK FOR THINKERS
"Labor Time Tokens," is a new

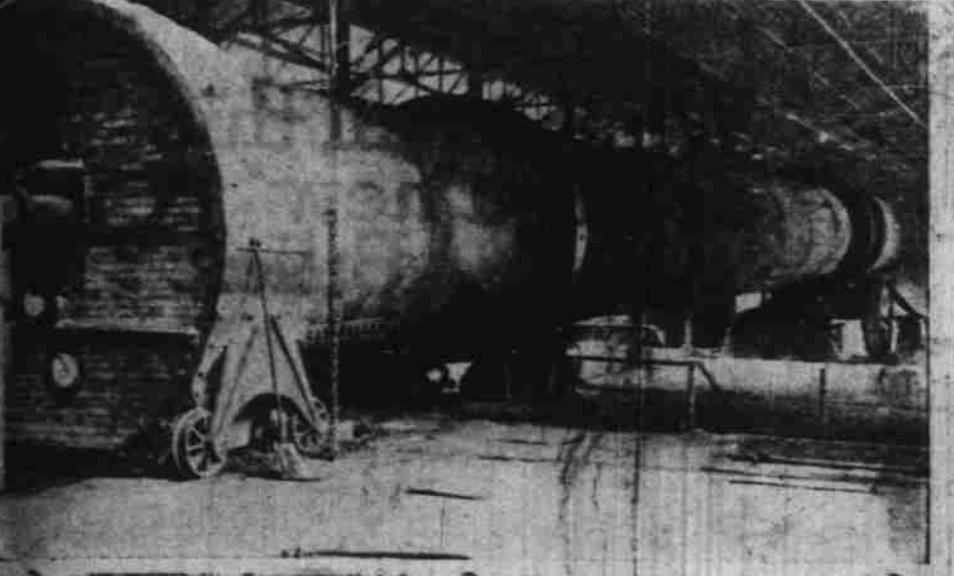
book just off the press and from the pen and mind of C. A. Strickland, Portland.

It isn't a book for the superficial mind, and it isn't a book that would interest the fiction lover—in truth the latter class of readers would peruse one or two pages possibly and throw the book aside.

To the thinking man or woman, who enjoys something to read that makes them study in an effort to follow the author's line of thought, "Labor Time Tokens," will appeal for it requires a lot of re-reading and deep thought to get the basic thought which the author desires to put over.

If you enjoy something different—something that will tense the brightest mind to follow, get a copy of Mr. Strickland's book—it sells for 50c. prepaid.

Kiln Which Helps Build Roads



A modern rotary kiln of the type in which Portland cement materials are burned today. Some of these great tubes, which revolve slowly while the crushed stone is being burned in them at a temperature of 3,000 degrees Fahrenheit, are more than ten feet in diameter and 150 feet long.

In this work are still visible in many of the old ruins that have been unearthed recently.

For hundreds of years after the decline of the Roman Empire, however, the science of cement making was lost to the world and it was not until long after Europe had emerged from the dark ages that the methods of making cement were rediscovered.

It was in 1756 that John Smeaton, an English engineer, was given a contract to construct the Eddystone Lighthouse in the English Channel off the coast of Cornwall. The work undertaken by Smeaton was particularly difficult. Twice before lighthouses had been erected on the Eddystone Rocks, but these were of wood construction and were destroyed by the Channel gales. Smeaton, therefore, planned for masonry construction, which made it necessary for him to find a mortar that would harden under water. He spent considerable time in research before he finally obtained the desired product. The knowledge which Smeaton acquired in his research is

fore the Roman Empire had even been envisioned. Many arches of this aqueduct are still standing, although it was built some 20 centuries before Smeaton discovered his hydraulic cement, which was virtually the same as the cement used by the Romans and the Carthaginians.

It remained for Joseph Aspdin, an English brick-layer, to develop a cement which would meet modern building needs. Aspdin found that, by mixing limestone or its equivalent, chalk, with clay or shale, burning the mixture and then grinding it to a very fine powder, he obtained a cement far superior to any which had been made up to that time.

He called this invention portland-cement because of the resemblance of the hardened mortar to Portland stone which had been a famous building stone in England for centuries. Aspdin was granted a patent on portland cement in 1824. This year the centennial of the invention of portland cement will be celebrated in England and America.

Mystery Surrounds Buick's Next Move

Many Rumors Are Being Circulated Regarding a New "Six"

MYSTERY surrounds the plans of the Buick Motor Company for its 1925 year. For the last two or three months rumors have been afloat of an announcement of importance to be made in the near future.

Now that the summer has started, the industry and the public alike are busy casting about for what Buick is doing. Naturally, the changeover to a new six-cylinder car, the first of which is expected to appear next year, has been the subject of much speculation. The six-cylinder type is one of the most popular for this prediction.

As a result of this in the fact that Buick, as a leader in the automobile industry, has been in the habit of making its plans and intentions known to the public in a very definite manner. In view of these facts, every move of the Buick organization for the last two or three months has been noted carefully by the sports of motordom and predictions have been numerous, based upon the events in Buick organization as interpreted with a "six" background. The shifts in the manufacturing program, customary in every organization at least once a year, have been diagnosed as the "wisecracker" as a positive indication that Buick is planning a new "six." Trivial comments

by those closely associated with Buick manufacturing also have been construed to fit into the picture of a new six-cylinder Buick car. Even the most cautious remark has been taken upon as reflecting a prediction or a hint.

The fact that Buick has to make a new car is a fact that is not in dispute. Now that there is a changeover to a new six-cylinder car, it is a fact that is not in dispute. As a matter of fact, the changeover to a new six-cylinder car is a fact that is not in dispute. The fact that Buick has to make a new car is a fact that is not in dispute. The fact that Buick has to make a new car is a fact that is not in dispute.

On the other hand, there has been nothing that definitely denies the truth of these rumors. They simply may or may not be true. Consequently, the calmest judgments in motoring circles are waiting—expectantly to be sure—but waiting without forecasting, for the day when Buick will reveal its 1925 program. The feeling is that whatever it may be, it is sure to be well worth waiting for.


You'll know it too!

Camping Equipment at Prices which say "Buy them NOW!"

Here is a golden opportunity for those folks who are planning to spend this summer's vacation in the great outdoors. This is not a sale—we are just listing a few camping necessities—some at special prices and others at our regular low prices. It will pay our vacationist friends to take advantage of the money-saving specials—make a note of the articles you will need for your trip—step into the nearest "Western Auto" store and select them now!

Special Prices for This Week

Standard Auto Tents

 7x7 white 8-ounce duck—plenty of room for bed and dressing room—quickly rolled up and takes up little space. Note the door—it is an added feature. This exceptionally low price includes poles and stakes ... **\$8.95**

Same tent in khaki 10-ounce duck—specially priced at ... **\$13.35**

Camp Cots and Stools

 Duck seat, on steel brace supported hardwood frame—without back, Special price ... **81c**

Same stool (with back), Special price ... **98c**


Camp Stool (same as above, only without steel braces and without back) ... **63c**

With back, sale price ... **80c**

Canvas cover—with high quality hardwood frame—it makes a comfortable full length bed. Folds into a snug package only three feet long. Specially priced this week at ... **\$3.68**

Cozy Camp Chairs, \$3.55
Lazy Back Chairs, \$2.64 and \$2.93

Icy-Hot Vacuum Bottles

 **Need No Introduction**

1-pint, Enameled ... **\$1.66**
1-quart, Enameled ... **\$2.57**
1-pint, Nickel ... **\$2.16**
1-quart, Nickel ... **\$3.24**

Genuine Stanley Bottles Cannot Break **\$6.75 to \$12.50; According to Capacity**

Swingspout Units


 These emergency units include individual colored containers for gas, oil and water. Fastens on the running board—is just proof. Containers are durably finished in baked enamel. Price complete with lock-type holding rack—**\$3.50**

AUTOSPADA

 One of the most useful touring and camping tools. A spade should be carried on every trip. It comes in handy when the car is stuck in the mud or sand. Well made and strong.

Each with solid handle **90c**
Back, with detachable handle **\$2.15**

Camp Stoves

 Made of sheet steel, enameled and fold up like a suitcase—the gasoline tank and burners are the latest improved design, safe and durable. The small size is only \$7.50. Larger sizes, same type, \$9.95, \$11.95.

Coleman Camp Stoves—**\$13.50**

Water Bags

Priced from **\$1.25 to \$2.50**, according to size.

Folding Pails, \$1.25

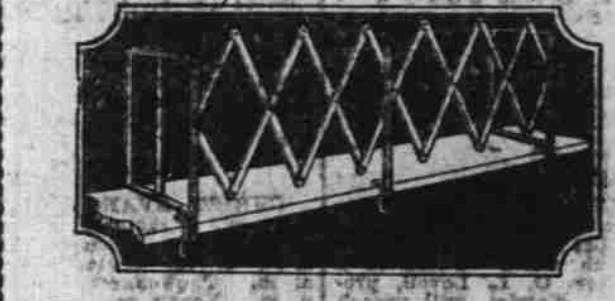
Auto Vacuum Freezers

Freezes ice cream in 45 minutes—no turning or cranking—finished in white enamel. One-quart size \$4.50, two-quart size \$6.50.

Victor Aluminum Set

Consists of practically every cooking utensil and dish necessary for the camping trip. Price complete—**\$10.50**

Luggage Carrier

 Why crowd the tonneau of your car unnecessarily with a great number of packages—when one of these folding luggage carriers securely clamped on running board can take care of practically all surplus luggage? Special price ... **\$1.95**

Extra heavy carriers with end gates, Special price \$2.90. Other carriers to \$4.25.

Folding Skillets

 These are a compact necessary part of everyone's camping equipment.

Small size, Special price ... **56c**
Medium size, Special price ... **64c**
Large size, Special price ... **79c**

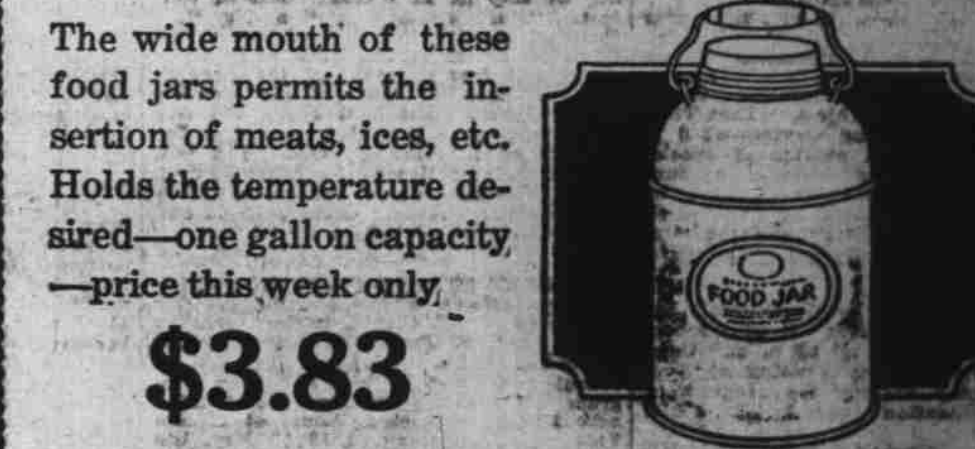
GRIDS

Simplex Grid—built like a steel bridge of heavy steel wire—folds flat. Makes cooking over the campfire more convenient—price 60c and 90c—according to size.

Necessities at Pleasing Prices

- Coleman Lantern ... **\$5.00**
- Suitcase or Package Carrier ... **\$1.90 and 2.35**
- Disappearing Luggage Carrier ... **2.45**
- Camp Refrigerator ... **\$5.50**
- Steel Tow Cable ... **3.75**
- Auto Covers (according to size and quality) ... **\$10.65 to 20.50**
- Tent Waterproofing Solution, gal. ... **2.10**
- Auto Spade ... **90c and 1.15**
- Camp Ax ... **1.85**
- Metal Stakes, each ... **.10**
- Jointed Tent Poles, each ... **.60**
- Paper Towels, 100 ... **.10**
- Robes ... **\$6.65 to 19.75**
- Goggles ... **.55 to 1.40**

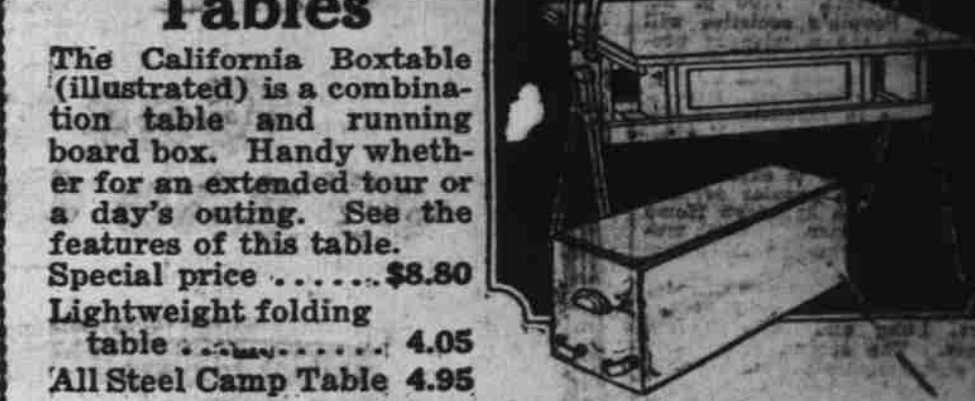
All-Purpose Jars

 The wide mouth of these food jars permits the insertion of meats, ices, etc. Holds the temperature desired—one gallon capacity—price this week only

\$3.83

Thermalware Jar, Gallon Capacity, **\$5.50**

Folding Tables

 The California Boxtable (illustrated) is a combination table and running board box. Handy whether for an extended tour or a day's outing. See the features of this table. Special price ... **\$8.80**

Lightweight folding table ... **4.05**
All Steel Camp Table **4.95**

Icy-Hot Motor Restaurant

This restaurant clamps on the running board of the car. It includes one Icy-Hot Bottle and one Icy-Hot Food Jar—two nickel-plated Lunch Boxes—Jelly Jar—Plates—Cups—Knives—Forks—Spoons and Napkins. Full equipment for six persons. This week's sale price ... **\$35.30**

4-person size, suitcase style ... **\$22.35**

Ajax Motor Restaurant for 6 Persons, **\$16.50**

Palmetto Tents

 No guy ropes—only one pole which is jointed in two pieces of tent at base 11 1/2 ft. height 9 ft.—heavy khaki floor included in price—**\$34.90**

Other styles from **\$19.50 to \$29.90**

Boycro 3-in-1 Canteen

 Water canteen, size two-gallon—oil can, painted blue, one-gallon—gasoline can, painted red, two-gallon. A very serviceable outfit. Priced **\$6.25 and \$7.75**, according to type. Water canteens priced **\$1.00 to \$2.15**, according to size and type.

Angelus Beds

 Very strong and substantial—will not sag or bend—will accommodate two persons—**\$19.25**. Ideal All-Steel Bed—**\$12.48**

100 Stores in the West

Western Auto Supply Co.

Salem Store, Corner Court and High Sts. Phone 796

