

Phones Give Warning of Fire Damp in Mine

Hundreds of inventors have applied their brains to the matter of finding a certain means of detecting fire damp, the cause of such a large proportion of mine disasters. So far no completely reliable method has been found; but it is believed that a development of the latest idea will solve the problem.

This idea consists in the use of a pair of telephones of a delicate kind, one of which is placed in the upper galleries, where the air is known to be pure, while the other is fixed in the lower workings. Wires from each lead to a central instrument.

Beside each of the telephones is a pitch-pipe into which a current of air is blown by a fan. The two pipes are tuned to give exactly the same musical note.

So long as all is well only one note is received and given out by the central telephone; but directly fire damp occurs the air supplied by the fan to the pipe in the lower workings becomes changed in quality and this alters the note very slightly.

That is, the upper pipe, of course, remains unchanged, and the result is that instead of a single clear note the central instrument emits a discordant noise which immediately attracts the attention of the man in charge, warning him that there is fire damp in the lower galleries.—Philadelphia Inquirer.

Positive Proof That Lover Was Untruthful

They sat on the sofa, he and she. The lights were turned low. They gazed into each other's eyes with perfect contentment. He arranged his necktie for the twentieth time and queried, "Do you love me, Alice?"

"Uh-huh, I think so."

"I knew you did—I love you too, Alice—you're the only girl for me."

She, hesitatingly—Did you ever love any other girl?"

"No, Alice—you are the first girl I ever loved, the only girl I ever will love."

"Oh, John, I knew it! I love you more than ever." She flushed with pleasure, raised her chin and looked at him expectantly through long lashes. He took three cigars from his vest pocket, laid them on the table beside the sofa and started to take her in his arms.

She sobbed, "All men are liars," and walked majestically out of the room.—Rehoboth Sunday Herald.

In the Solar Plexus

The late John S. Sargent, the famous painter, who was found dead in bed with a book at his side, hated above all things the best-seller type of novel and the best-seller type of novelist.

A best-seller novelist, visiting Mr. Sargent's Tite street studio, once said: "Well, old man, you ain't the only American with an international rep. I guess mebbe you heard about the hit my last book's makin'." She's been translated into French, German, Italian and Japanese.

"Why don't you get somebody," said Mr. Sargent, "to translate it into English?" — Pittsburgh Chronicle-Telegraph.

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BETTER COWS NEEDED TO SUPPLY CONSUMERS

The number of dairy cows in the United States is increasing, as well as the number of people, but not at the same rate. In only two years out of the last six has the dairy cow population increased in proportion to the increase in human population.

The United States Department of Agriculture has just completed a study of the utilization of milk, in which it is shown that slightly more than 1,000 pounds of milk per capita is used annually in one form or another. In other words, a grand total of 114,666,201,000 pounds of whole milk is utilized in this country by manufacturing it into various products, by feeding it to calves, or for household purposes. This amount was produced by 26,252,000 cows, an average production of 4,368 pounds of milk per cow.

During the last few years the increase in population has been around one and one-half million people annually. This would mean that with cows no better than those we have at present the milk cow population should increase at the rate of 375,000 a year to supply the necessary 1,000 pounds for each person—or one cow for every four people. It is also interesting to note that the per capita consumption of milk in 1924 was 14 pounds more than in the preceding year.

Since our average production is much too low, it is not wise to consider meeting the demand for increased supply by having more cows of the kind we now have, but it would be much better to meet the situation by breeding better cows. Not more cows but higher-producing cows are what is needed to keep pace with the increase in population.

State awards \$1,000,000 construction contracts on Roosevelt highway.

PAYROLLS EXPAND WITH BIG LUMBER PRODUCTION

The whole trend of the lumber market appears to be upward, judging from reports submitted by mills all over our country.

Shipments from all sections are equaling production, and in many cases are greatly in excess. Demand of building trades has been exceptionally large.

There is no slackening of demand in sight for the last six months of the year, and price advances are predicted.

NORTHWEST APPLE TRADE

Apple exports for 1924 were \$24,287,000, boxed apples of the Northwest being \$15,740,000 of this total. The growing importance of the apple trade is shown by the installation of refrigerating machinery on several steamship lines calling at Pacific coast ports, so that they can take apples to Europe, or anywhere else on earth, without breaking bulk. This year Portland plans to devote one whole municipal pier to the apple trade, which ought to run far into the millions of dollars.

NEW ECONOMICAL AGENT

Vegalene, a new alcoholic carbon remover and gasoline energizer, is now being made at Gresham, Oregon, from cull potatoes, fruits and grains. It is to be marketed in pint and half-pint bottles, and tests are said to substantiate the claims made by its makers.

TELEPHONE DIRECTORIES

MAY BE SECURED
The new telephone directories are here, and all desiring such please call at the office and get your copy. It is necessary for all parties to be called by number, and in order to do this you will need your new directory.

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If you drop a dish cloth, company won't come, save as a matter of coincidence. Popular superstitions like this are losing ground; so is the superstition that there is something mysteriously better about "eastern" motor lubricants, merely because they cost more and are made in the east.

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More than ever, motorists are discovering that the test of an oil is not where but how it is made, and how it lubricates. That's why Zerolene—refined from selected western naphthenic base crudes—is today successfully lubricating more cars in the Pacific Coast states than any other oil made.

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Zerolene will give your car better lubrication: it increases the gasoline mileage, reduces carbon-removal and maintenance costs and lengthens the life of any engine in which it is used. Why pay tribute to a superstition? Insist on Zerolene. Always ask for Zerolene by name.

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A series of independent and impartial reports showing the experience of large users with Zerolene motor oil has been collected in our booklet, "Why Pay Tribute to a Superstition?" Ask any Standard Oil Company representative or Zerolene dealer for a copy.

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QUALITY AT LOW COST

PLANNING SAVES MONEY

Most farm women try to stretch their housekeeping dollars as far as possible, but their skill in this art varies widely. This is shown by cost of living studies made by the Department of Agriculture. Many farm families fail to get the quantity of vegetables and fruits that could be had from the farm at low cost in comparison with the market prices of these products.

Less than one-half of the total amount of food products consumed by 100 farm families in New London, Conn., in 1923 was furnished by the farms. The remainder was provided by direct purchase. Similar high percentages of purchased as compared with farm-grown table supplies have been recorded in other localities. Farm families, it is declared, could live more cheaply were their meals better planned, and provided to a greater extent from the farm and the garden.

Savings are often possible, says the department, through more efficient use of fuel and household supplies. Sometimes waste in the use of the automobile and excessive auto operation costs can be lessened. Expenditures for education and "advancement" are desirable, but money for these purposes should not be spent lavishly without due consideration merely because the purpose is regarded as educational or spiritual.

One way of stretching the dollar is by setting up a definite goal for family improvement. Failure to plan often means that vital needs, such as those for insurance, health and recreation, can not be met. When all members of the farm family understand where the family income goes and co-operate in attaining a definite goal in family living, a given amount of money will go much further.

In the Connecticut study the average annual expenditure of 110 families was found to be \$1,492, compared with \$1,520 for 183 families in Ohio, \$1,669 for 472 families in Iowa, and \$1,558 for 187 families in Alabama. Only 4.6 per cent of the Connecticut farm homes studied were completely modern. Expenditure for advancement averaged \$81 per family, or 5.4 per cent of the total value of goods consumed. This proportion was lower than that of the families in Alabama and Iowa, but slightly higher than that of the families in Ohio.

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