

**PLAN TO GET MUSIC OVER LIGHT WIRES**

REPORTED FROM LONDON

**British Inventor Works Out a Plan to Complete With Radio; Details of System**

An invention which, it is claimed, will inaugurate a new era in radio-casting development is occupying the attention of wireless experts in London, England, according to a dispatch to the Christian Science Monitor.

This is the work of an English engineer, who has found the means to adapt the ordinary light and power wires to the transmission of radio messages, thus cutting out the ether and superseding the now familiar tube or crystal receiving sets.

Among experts the invention has so far received rather a mixed reception, finding critics as well as champions, but it is really only in an experimental stage at present, and it is too early to form any judgment as to its ultimate utility. At the same time, the inventor has already given some demonstrations of the working of his system and claims that all technical difficulties have been overcome. It is not too soon, therefore to give some description of the work he is doing.

**On Electric Wires**  
Briefly he proposes to abolish the usual radio apparatus for receiving wireless programs and to give the same service on the electric light wires. The program would then be brought by cable from the radio-casting station to the electricity headquarters of any town or district and thence conducted to the power lines. All that the householder would then have to do would be to connect a loudspeaker or pair of headphones by means of a special attachment to the electrical switch, and programs would then come straight to his ears. Incidentally it may be added that once the system is in working order there is no reason why the gas or water mains should not be used in the same way as the electric light wires.

**System Described**  
As to how this is already being achieved in an experimental way the special attachment is fitted to the receiving end of the electric light wire (or any other metallic conductor) which reduces to audio frequency the current which is passed over the wire. What the inventor does is to superimpose on this wire a current which is just above audio-frequency and then reconvert it by means of the attachment so that it is reproduced in the ordinary manner. No aerial or other apparatus is necessary, and the special attachment should not cost more than twenty shillings (about five dollars). The system is equally applicable to both alternating or direct currents, no tuning is necessary the reception is stated to be superior to that of any wireless set.

**Other Claims**  
Other advantages that are claimed for the invention are the avoidance of the difficulty of the overcrowding of the ether. Europe, which is lim-

ited to wavelengths of 200 to 600 meters, has only room for 99 radio casting stations, whereas actually there are nearly 200 either working or planned. In addition, the apparatus is said to be fool proof and can easily be housed in a box six inches square. There can be no possibility of interference from local generating noises or atmospherics, and so it should suit listeners who wish to hear only one station admirably.

On the other hand there are not wanting critics of the invention who regard the whole project as impracticable.

**TELEPHONE CABLE NOW TO ST. LOUIS**

**Complete Line From Chicago Is Now in Operation; Route Is Explained**

Chicago and St. Louis are now joined by telephone cable.

In a brief ceremony on Dec. 15, a new cable was formally put into commercial service between the two cities and at the same time telephone cable communication became continuous between New York and St. Louis by way of Chicago.

The new cable required two years to build and cost approximately \$7,000,000. It is 344 miles long; it is underground for 51 miles thru cities, and is strung on poles in open country.

While not uniform throughout, in general the cable consists of from 500 to 600 copper wires covered with a lead-antimony sheath about 2 1/2 inches in diameter. It provides for more than 250 telephone circuits, and 500 telegraph messages can be sent simultaneously with the telephone conversations. Ten heavily loaded pole lines would be required to duplicate in open wire construction the facilities of the cable.

Existing open wire construction will not be displaced by the new cable. It provides added communication facilities with assurance of the service afforded being practically free from interruption from sleet and wind storms.

The route of the cable is through Joliet, Ottawa, Princeton, Wyanet, Peoria, and Springfield. These cities and adjacent territory will have the benefit of the increased facilities.

During the opening ceremony, W. R. Abbott, president of the Illinois Bell Telephone Co., Chicago, conversed with E. D. Sims, president of the Southwestern Bell Telephone Co., St. Louis; W. R. Dawes, president of the Chicago Association of Commerce, talked with Harold M. Bixby, president of the St. Louis Chamber of Commerce; and Walter S. Gifford, president of the American Telephone and Telegraph company, and James Brown, chairman of the executive committee of the Chamber of Commerce of the State of New York, talked from New York to Chicago and St. Louis.

In holding that the President has a right to remove those whom he puts in office the Supreme court again demonstrates the truth of the old axiom, "all that goes up has to come down."

Some onion land in New York state sold the other day for \$1,700 an acre. Raising onions seems to be the one skin game that pays.

**BASKETBALL FIRST HAD 9 MEN ON TEAM**

FOUNDER TELLS ABOUT IT

**Dr. James Naismith at Meeting of Joint Committee Relates Facts About Origin of Game**

According to figures revealed at the recent meeting of the joint basketball committee there has been a tremendous increase in the membership of the body since its founding thirteen years ago. The committee meets regularly twice a year, to revise the basketball rules and later to interpret them.

In 1925, 610 officials were registered through the national office and 1235 were registered through local boards, making a total of 1849 registered officials.

Pennsylvania was the first state to organize all registered officials within the state in one organization, but Texas and Connecticut have since followed suit and several other states are contemplating similar organizations.

Great strides have been made in the game of basketball since its founding thirty-five years ago. At a recent meeting of the joint committee a telegram was read from James Naismith, the founder of the sport, who described the transformation through which basketball has passed. Back in 1891 nine men used to play on a side, and the game was a rather crude stage, resembling more a mad scramble. There were no spectators coaches or officials.

It is estimated by Dr. Naismith that there are 15,000,000 people, including every race and country in the world and both sexes, now playing the game. Hundreds of high-salaried coaches are devoting most of their time to the development of the game, and conditions have devel-

oped so that they are most favorable for the finest kind of sportmanship. All the dangers have been eradicated by careful, scientific organized control.

Speaking of the presidency, Mr. McAdoo says: "There is no office I want less." But is there and he wants more?

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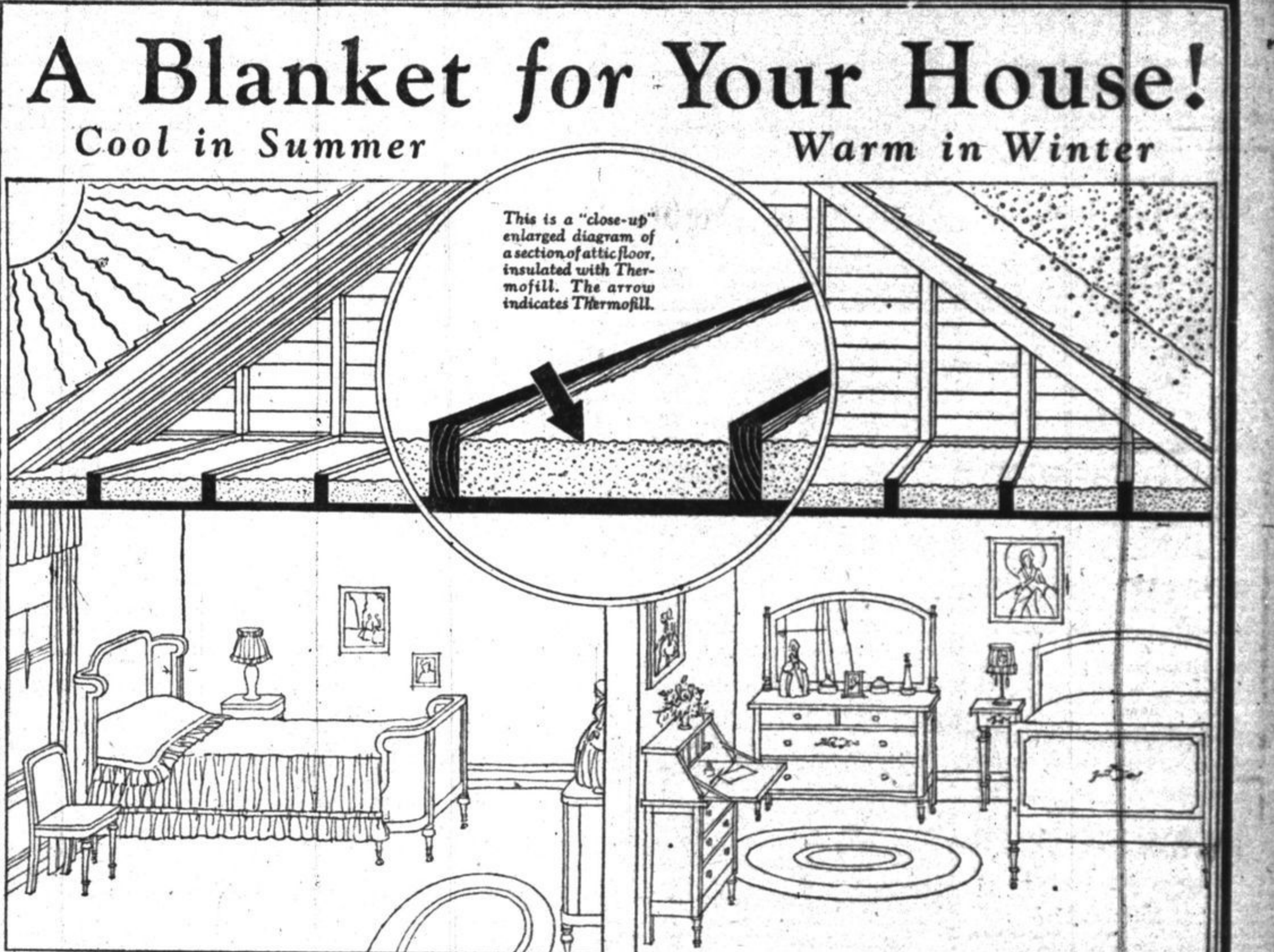
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Grasp this unusual opportunity before it is too late.  
For further information you may call up Mr. J. High, phone Highland Park 1925, or any of its members.

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**A Blanket for Your House!**  
Cool in Summer Warm in Winter



This is a "close-up" enlarged diagram of a section of attic floor, insulated with Thermofill. The arrow indicates Thermofill.

Blanket the house itself. Place Thermofill on top of your plastered ceilings in the attic space, and get some comfort out of those chilly rooms upstairs!

The cost? You'll save it on one winter's fuel bill!

And the bedrooms upstairs—the nursery—the bath-rooms—instead of always being cooler than the first floor, will be the same temperature—or warmer.

You simply spread this light-weight, dry, insulating material, Thermofill, 2 to 3 inches thick, between the attic floor joists (as pictured above). Takes but a short time to do the work—then when it's done, you've

stopped spending good money to heat useless attic space. Do it now—while the cold weather's still ahead. Many North Shore folks are having this comfort-insurance put in their homes this Fall.

There is a contractor near you—right here on the North Shore—who is prepared to submit estimates on the cost of Thermofill-insulating your home. Call United States Gypsum Company, Franklin 0568, or send the coupon below for full details and name of nearest contractor.

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**How Many Wives Will Say "Amen" To This?**

"I told Jim" says one little lady, "there were a hundred things around the home I needed worse and would rather have than to put that extra money into a more expensive car."

[ A closed Ford for less than an open car of any other make—and the seating put into new linen, silver, draperies, or furniture—would please some little lady very much. ]

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