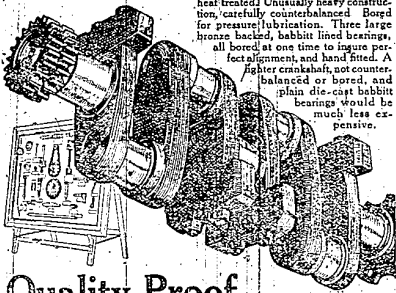


# Hupmobile

Crankshaft: Drop forged steel, double heat treated. Unusually heavy construction, carefully counterbalanced. Bored for pressure lubrication. Three large bronze backed, babbit lined bearings, all bored at one time to insure perfect alignment, and hand fitted. A rubber crankshaft and counter, balanced or bored, and plain die-cast babbit bearings would be much less expensive.



## Quality-Proof

That Shows Exactly How Finely The Hupmobile Is Manufactured

The inside of a motor car is what determines the worth of your investment. Because that is so, the Hupmobile presents in a new way quality-proof to the buyer before he pays his money.

Quality-proof pertains to Hupmobile parts. It is made up of the parts which you can't see in the completed car. It is on display in our salesrooms all the time.

It establishes, in the surest, most positive way in the

world, that Hupmobile quality is unique and superior for a car of its class.

It shows you clearly that parts cannot be more finely made, or of finer materials, no matter what the cost. It shows you these things, even though you may not be an expert in motor car manufacture.

Come and see Hupmobile quality with your own eyes before you sign an order for any car.

**WM. H. HART**

Telephone No. 125.

Farmington, Mich.

### THE HIGH SCHOOL TATTLER

(Continued from Page 1.)

a tie. It will be continued and the result published later.

#### Music and Art—

Posters are being made for the Chop Suey Supper and Junior Carnival. Also blossoms are being made for decorations of the event.

#### Miscellaneous—

Mr. Leonard took a trip Thursday afternoon to Ann Arbor and secured Miss Louise Ford of Adrian as mathematics teacher for the coming year.

Mr. Leonard has been invited to speak in Ann Arbor at the 68th annual Adelphi banquet to be held May 19th.

Mr. Leonard is going to give the commencement address at Montgomery, May 23.

—Alice Arnold.

#### Athletics

The team redeemed themselves a little last Friday, in a tight game with Dearborn, by winning 6 to 5. This still gives Farmington a chance for first place. They have lost two out of three games so far which gives them an average of 333, but if they get into a winning streak their chances are fairly good.

Farmington led most of the way, but in the seventh, the last inning, an error by the second baseman let in the tying run. In the extra inning Newbound hit his Quinn for another run. Dearborn was held scoreless. The next game is with Plymouth and is a home game. Come and give your team a little support.

Line-up: Allyn, C; Quinn, P; Wixon, P; Veitch, 1st; Cousins 2nd; Bryan, S S; A. Salow; L F; R. Salow, C F; Graham, R F.

—John Veitch

#### Observations

Pearl Starkey is sporting a new pair of ear rings.

Lillian Collins believes in displaying one's colors, for she has been wearing a red, white and blue uniform.

### WALLED LAKE NEWS

Mrs. Mat Vogler spent the week-end in Detroit.

Mrs. Allen Benjamin has been very sick the past week.

Frank Coe is doing the carpenter work on William Hoyt's new house.

Edward Coe and family have rented the Baptist parsonage for the summer and will move there soon.

A good crowd attended the play given by the W. M. E. class of the M. E. church Friday night at the schoolhouse. About \$75 was taken in.

Mr. and Mrs. Charles Green and Mr. and Mrs. Earl Parrish, who run Juanita's restaurant, will soon move into Herb Andrew's house across the road from the restaurant.

Dan Bentley's family have moved into their cottage and have moved the house they have been living in onto the Bentley subdivision and are preparing to build a modern house in its place.

#### How to Remove Old Wax

Mix equal quantities of sal soda and slaked lime, using about one pound of the mixture to a gallon of water. Apply this with a mop, and afterward scrub the floor with sand, soap and water. If necessary, apply dilute sulphuric acid, one part of acid to ten parts of water. Afterwards rinse 1 water containing a little ammonia and wipe dry. Remove any remaining traces of wax by means of turpentine otherwise shells will not adhere.

#### Praise Excites Suspicion

The commendation of some men justly excites suspicion, and their measure is equivalent to a certificate of good character.

The dictionaries keep long hours lately to accommodate the freshmen.

Everyone is trying to make a home run before the last of June. It might be a dignified chase; to be "put out" on third.

—Editor.

### —SEE US—

For - C-e-m-e-n-t - W-o-r-k  
Block Laying, Driveways, Sidewalks  
and Basements

All Work Guaranteed  
S. J. WALKER & CO.

Farmington, Mich.

Base Line Stop

## ATTENTION TELEPHONE SUBSCRIBERS OF FARMINGTON

The date of rendering telephone bills will be changed this month.

Please read the important notice enclosed with your telephone bill.

MICHIGAN BELL TELEPHONE CO.

**ARAB**

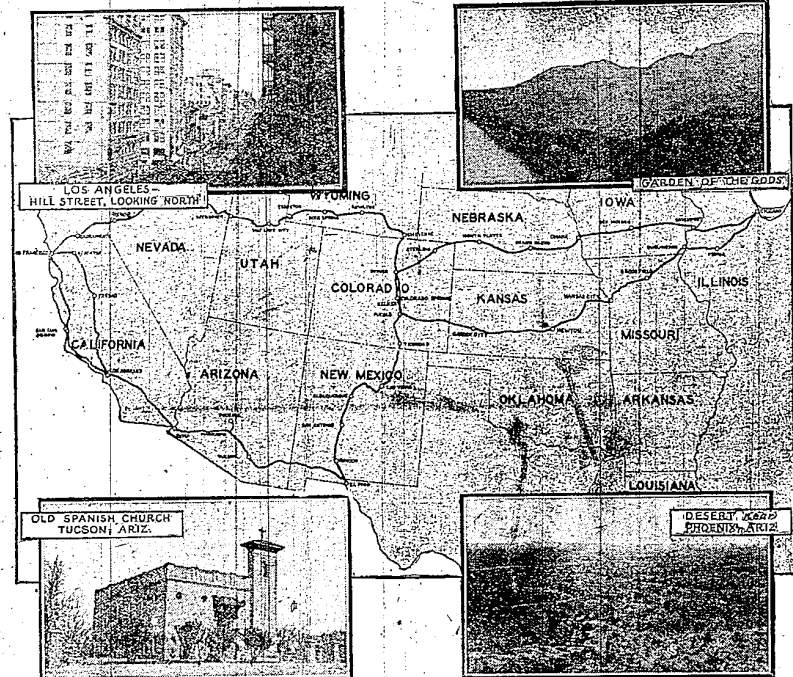
No 1.....Soft  
No 2.....Medium  
No 3.....Med. Hard  
No 4.....Hard

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## Longest Through Telephone Circuit in World Links Chicago with Los Angeles and the Great Southwest



By R. T. BARRETT

The longest through telephone circuit in the world, from Chicago to Los Angeles, is now serving the growing telephonic needs of the great Southwest.

It is the fact that this is a "through circuit" instead of a "built-up circuit" that makes this a permanent important from the service standpoint. "Through circuits" as its name implies, gives a permanent through connection between the two cities at which it terminates. A "built-up circuit" on the other hand, has to be "built" for each call by switching or connecting together a number of shorter circuits between intermediate cities along the line.

When the New York-San Francisco Transcontinental Line was opened in 1915 it was operated for several months as a through circuit, 8,400 miles in length, but it was later cut in two for operating reasons, the division being made at Chicago. Los Angeles and its surrounding territory have hitherto been reached by switching the circuit over this ori-

inal Transcontinental Line to San Francisco and thence down the coast. New facilities, recently put in service, provide a direct circuit, without the necessity of switching, from Chicago to Denver and thence to El Paso, Tucson, and Phoenix to Los Angeles. The circuit is 2,907 miles long—more than 500 miles longer than the Chicago-San Francisco circuit, more than 1,200 miles longer than the New York-Havana circuit, and more than 1,500 miles longer than the New York-New Orleans circuit, which have hitherto held the record for through circuit length in the world. The longest through circuits in any country of Europe are the Berlin-Essen circuit, 932 miles, and the London-Glasgow circuit, 418 miles.

The use of telephone repeaters along the line gives a normal transmission equivalent of twelve miles—that is, it is possible to talk from Chicago to Los Angeles, over this circuit, as efficiently as one could over a standard Number 19 gauge cable circuit, without loading or repeaters, twelve miles in length.

Thirteen through line repeaters are used. The use of these repeaters, an essential feature of which is a vacuum tube amplifier somewhat similar to that which is familiar to all radio enthusiasts, has aided materially in making long distance transmission possible. The further a telephone current travels unaided, the weaker it becomes. The effect of a repeater is to catch this weakened current, amplify it many times and speed it on its way with renewed strength.

At night, when traffic is heaviest, an additional through circuit from Chicago to Los Angeles is obtained by connecting together a Chicago-Denver, a Denver-El Paso and an El Paso-Los Angeles circuit.

Although long distance lines had been built along the route of the new "Southern Transcontinental," the existing pole lines at some points were already carrying capacity loads and were otherwise unsuitable and it was necessary to construct additional pole lines to carry the new through circuits. This new construction includes a stretch of some seventy-five miles between Denver and Colorado Springs and another to New Mexico,

between San Antonio and El Paso, where about ninety miles of new pole line was built.

The tourist bent on getting a comprehensive view of the varied geographic, topographic and climatic conditions in America might well follow the line of this longest through telephone circuit. He would find rough mountain country from Denver south, with the highest point of the line reached at Eaton Pass, near the Colorado-New Mexico boundary, where the altitude is 7,600 feet. He would pass through long stretches of desert sand, lava beds, cactus country, arid lands reclaimed by irrigation, orange groves and cotton plantations. At Salton, just over the California border from Arizona, he would find that the line dips into a depression of 200 feet below sea level.

Thus, from the heights to the depths, from rugged mountain lands to a perennial summer Paradise, this continent-spanning circuit winds its way, playing its important part in uniting a nation in the bonds of speech.

### —CEMENT WORK—

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- - Floors - - Basements - -

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**Buick**

In 1923  
Buick sold  
218,286  
motor cars  
for which  
the public paid  
\$302,752,950.  
not including  
war tax or freight

Plymouth Buick Sales Co.

Phone 263

Plymouth, Michigan

When better automobiles are built Buick will build them.

The circuit was put in service on December 22, 1923.