

# D

## Patent Cures

### DIFFERENTIAL GEARS

If you would like to know what ratio your differential gears are, the following procedure is very simple and quite accurate!

Most Model A's were factory equipped with 3.78-1 ratio except for some Fordor Sedans and cars sold in Denver or other high altitude regions which had 4.11-1 ratios. The 3.54-1 (high speed) ratio you hear so much about these days was not offered until after WWII.



**Red E. Power**

In order to determine your ratio you should place your car on a level strip or one pointed slightly downward but have the car pointed straight.

Set the emergency brake and the transmission in high gear (third).

Put a chalk mark on top of the crankshaft pulley and one at the bottom of the right rear tire. Solicit your wife or a friend to watch the mark on the rear tire.

Now with the car in high gear and the emergency brake released, start rolling the car slowly forward. The chalk mark on the pulley will disappear. If you continue, the chalk mark will reappear one, two, and three times. If at exactly the third time the tire chalk mark is straight down you have 3.0-1 ratio. If not continue rolling the engine over until the chalk mark appears for the fourth time - stop the car when the chalk mark on the pulley is pointed to the side (say 9:00 o'clock). If the chalk mark on the tire has passed the bottom you have 3.54-1 gears; if the mark is about straight down you have 3.78-1 gears, and if it is not yet at the bottom, you have 4.11-1 gears.

*Editor's Note: This is a series of "old fashioned," yet tried and proven cures for what ails your Model A.*