August 25, 1922

yield a current having a voltage (electrical pressure) of very slight-ly over two volts. The cell will give almost the full voltage even though it be nearly discharged. Of course two volts is not enough pressure for practical pur-poses. We must have six or more volts. In order to get the increased voltage, a number of cells are connected together in "series", that is the positive pole of one cell is connected to the negative pole of the next cell, and so on. Thus if a six-volt battery is required, three cells are so connected up, while if a twelve-volt battery is required, if a twelve-volt battery is required, six cells are used.

six cells are used. In many cars the twelve-volt battery is used for the starting motor, but only six volts can be used for the lights and ignition. In this case a separate "cut-in" is made, so as to use only three cells for the lights, etc.

The capacity, or let us say the amount of current, which can be stored up in a storage battery stored up in a storage battery is given in amperehours. Thus, there are 40, 60, 80, 100, etc., amperehour batteries. The num-ber of amperes flowing, mul-tiplied by the number of hours it flows, being the ampere hour. So a 60-ampere hour battery can yield 1 ampere for 60 hours, or 2 amperes for 30 hours, or 10 amperes for 6 hours or 120 am-peres for 3 hour etc. Also to bring a completely dis-

Also to bring a completely dis-rharged 60-ampere-hour battery to a full charge, when charged by a 5-ampere current, the battery must be connected to this charging current for 12 hours. As it is customary to give a battery a 10 per cent. overcharge, it would, in fact, have to be connected long enough to give it 66-ampere hours, or 13 1-5 hours.

Understanding the above will help you to tell what the condi-tion of the battery of your car is. As, for example, a starting motor will require anywhere from 120 to 250 amperes in order to crank the engine. Assuming that it requires a 180-ampere current then a tully charged 60 ampere hour battery wou'd be discharged completely in 1-3 of an hour, or twenty minutes. Now, the charging generator charges at about a 6 ampere rate, so that it would take 10 hours to charge this bat tery. Thus you see it takes about 30 minutes of cunning to send back the same amount of current to a battery as is taken at or used up in one minute of use of

of commission. Mo e than a month afterward he called for his battery and when he received a bill at 15 cents a day for the ental of the battery became very indignant, claiming that he should not be charged for more than three days, the time his car was in service.

TO PREVENT REGRETS'

"Watch the car ahead,"-this is evidently intended for the youths—and some of the older men—who watch the side walk when driving downtown rather than the car in front of them.

<page-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text> How many of us ride over the safety zone and park our cars without any lights, or have the license tag covered with mud, or a hundred and one other things which cause us to spend an en-joyable two hours or so "ex-plaining to the judge" that we could not understand how it happened? Obey the law, and while speaking of the law, rem-ember that ignorance of the law excuses no one. In this con-nection it might be a good idea to get a copy of the rules and regulations and see just how many of them will be foreign to you the first time you read them. which cause us to spend an en-

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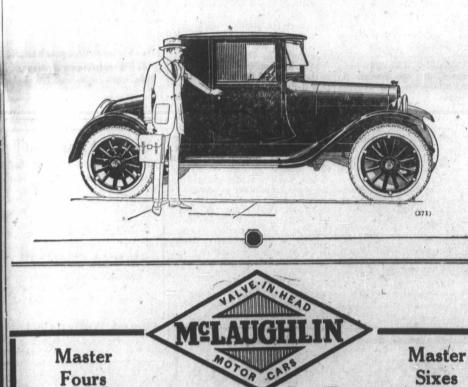
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