The Woman Who Loved and Earned

BY JANE PHELPS

A Modern Story of Home and Business

ROBERT'S GREAT IDEA

CHAPTER 76.

I seldom wept, but I cried until I fell asleep that night. The last thing I remembered was the clock striking 11, and Robert had not yet come in.

I had wept partly because of Robert, partly because I was so worn out that, once started, I couldn't stop. It had been some time since Robert had been to see Marion—to my knowledge. So I should not have allowed that alone to make me so miserable had I not been tired out. The next day was Sunday and I determined to lie in bed nearly all day.

I awoke with a start. I had heard the front door slam, and sat up in bed. Could it be Robert, and was he—had he been drinking again? He never slammed doors when he was himself.

Breathlessly I listened. The steps mounted the stairs, then passed my door. Evidently not Robert. Wide-awake now I jumped up and switched on the light. Three o'clock, and Robert not yet in! The clock could not be right. Just as I reached for my watch the clock in the church tower boomed out three times. What could have happened? Perhaps he had been hurt again.

"Where in the world have you been?" I asked as the door quietly opened a moment later, and Robert came in.

"I told you I was going to Marion's, didn't I?"

"Yes. But surely you haven't been there until this hour. It would compromise her as well as yourself."

"No, I haven't been there all the time." He offered no further explanation, but I was not annoyed, too curious to be polite, so I queried:

"Where have you been?"

"Where have you been?"

"See here, Gerry! This has got to stop." For the first time I saw he had been drinking, not much, perhaps, but still it had affected him.

"What has got to stop? Surely you don't object to telling me where you have been?"

"Surely I do! I pay my way now, don't I? You aren't supporting me, are you? When you do, you can ask where I have been and I will answer, but not before. You can put that in your pipe and smoke it!"

"Don't be vulgar, Robert." I was furiously angry now. He was not drunk, so I couldn't make that an excuse. It was abominable in him to stay out until almost morning and then talk to me as he was doing. I would not endure it.

"What has come over you?" I went on. "Tell me where you have been? I am your wife, and have some rights, even if I do keep still most of the time when other women would make a fuss."

"Been playing pool. Won too. Shall play every night, so you may as well get used to the idea. Great little idea, don't you think If I can't make money one way, will another."

"Robert Meredith, what are you talking about? Surely you don't mean what you are saying."

"Wait and see whether I mean it or not. Married man, no home. Example in arithmetic. What's the answer? Pool room. Man no good at job. Can't make money. Makes money in pool room. Proves—don't you see?"

"I see you have been drinking again," I snapped, "and that you better come to bed! Burch and Company won't have you if you aren't careful.' '

"To hell with them!" he returned. "Don't care if I quit tomorrow."

I said no more, because I couldn't! I was crying again, but quietly so Robert would not know.

He stumbled about as he undressed, then went to bed. But I lay awake until time to rise. What had come over my husband? Naturally quiet and refined, he had changed so completely that I scarcely recognized him as the same man. Morbid, sullen at times, then like this—as he had been when he came in, profane, ugly.

He had been gambling in some pool room, drinking, and had declared he was going to continue doing the same thing every night. Of course he did not mean it—he scarcely knew what he was saying, I excused. But he HAD done it. He MIGHT do it again.

Tomorrow—A Decision.

IN MEMORIAM

JOHN McDONALD.

There passed away at Greenvale, King's County on Feb. 25, one of the pioneer settlers of that settlement in the person of John McDonald at the advanced age of 94 years. Notwithstanding his many years, the deceased had enjoyed fairly robust health up to a short time previous to his death. He had lived a very active life, hard working and industrious and was widely known and respected by the people of Eastern Kings. He is survived by two sons, Hugh J. with whom he lived and Angus J. residing at Souris. The funeral took place to St. Mary's Church, Sour's on Feb. 27 and notwithstanding the unfavorable and inclement weather was largely attended. Services were conducted by the pastor, Rev. J. C. McLean, after which the remains were laid to rest in the adjoining cemetery. The passing away of John McDonald marks the departure of another one of the old landmarks, and a representative of pioneer days, and having almost reached the century mark he has been called to his reward leaving behind him an unblemished record.

"May his soul rest in peace."

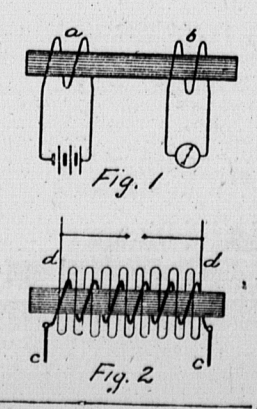
HINTS FOR The Motorist

BY ALBERT L. CLOUGH

IGNITION, THE INDUCTION COIL

The induction coil or jump-spark coil is simply an electrical transformer, which takes electrical energy from the battery, in the form or a current of low pressure and considerable volume (low voltage and fairly high amperage), which is incapable of jumping as a spark through a gap or break in the electrical circuit and changes it into a current of very high pressure and very small volume (high voltage and low amperage) able to discharge through the gap between the sparking points, where the electrical energy is changed into heat energy, capable of causing ignition of the gas and air mixture. Everyone is familiar with the kind of transformer that forms a part of every electric lighting installation. This takes very high-tension, dangerous current, unsuitable for use within buildings, from the main wires; leading from the power station and transforms it into a current of larger volume, but of a much lower safe and usuable pressure which flows through the house wiring to the lights. The spark-coil is essentially the same kind of a device, but it works just opposite—from low to high tension instead of from high to low-tension. Sometimes the workings of a device can best be illustrated by comparison with those of another and to anyone who understands the hydraulic ram the anology will be very plain. The "ram" is a kind of automatic pump for raising water to considerable heights. Water from a brook or pond is caused to flow through it, at low head, but at large volume, for a few instants, and then the flow is suddenly stopped with the result that a small flow of water, at high pressure is sent into an elevated storage tank for useful purposes. In other words, the water current is changed from one of low to one of high pressure and it is the sudden stoppage of the flow that causes the transforming action—a fact worth remembering. Electricity and magnetism are closely related forms of energy and the induction-coil is an electro magnetic device. When an electric current is caused to flow around a bar of soft iron, it makes this iron a magnet, so long as the current is kept on, and there is a certain storage of electricity energy in the form of magnetism, which store of energy when released by the cessation of the magnetizing current, manifests itself in the form of another or so-called secondary current. Where there is but a single coil of wire around the iron bar this secondary current, due to the giving up of stored magnetic energy, tends to flow through it, but if there are two entirely separate coils around the bar through one of which the primary or magnetizing current flows, there will be a flow of current in the other coil—the secondary coil, when the magnetizing current form the battery ceases and magnetism dies out. This is the principle of the induction coil. Imagine the iron bar or core (Fig. 1) to have wound around it but a single turn of wire (a) for the primary circuit, through which the battery current passes to create the magnetism and also but a single turn of wire (b) for the secondary or "induced" circuit. When the battery current ceases this single turn of the secondary circuit will be acted upon by the suddenly waning magnetism and ar impulse of current, at a low pressure will be produced in it. Now suppose that there are hundreds or thousands of turns of wire around the core in the coil (b), forming the secondary winding. Each one of these turns will have developed in it nearly the same electrical pressure produced in the single turn and all these individual pressures will be added together, so that the electrical tension between the ends of the coil will be hundreds or thousands of times as great as that produced in the secondary coil of a single turn. It is in this way, by winding the secondary coil of thousands of turns of wire that the required electrical pressure for producing a jump spark at the plug points is produced. The primary coil being intended only for the purpose of magnetizing the core and being fed with a current of large volume, need be of but a few turns and the wire should be of liberal size. Very fine wire has to be used in winding the secondary so as to bring its turn as close as possible within the influence of the magnetized core Fig. 2 indictates this C. being the primary and 1 the secondary winding. If the primary current dies out slowly and gradually there will be a secondary current impulse of quite long duration, comparatively speaking but of low intensity. If on the other hand it dies out very suddenly and abruptly, all magnetic energies will be changed into electrical current in an impulse of very brief duration and of very great intensity, sufficient indeed to produce a very energetic and effective spark. Matters therefore have to be arranged so that the core magnetism shall discharge with the utmost suddenness and to bring this about it is found necessary to make the core not of a solid bar of iron of cylindrical form but to build it up out of a bundle of fine, straight wires of the best quality of magnetic steel, grouped into a cylinderical form not too long in proportion to its diameter. Sufficiently abrupt cessation of core magnetism upon the breaking the primary or magnetizing current cannot however be insured except by the use with the induction-coil of an electrical condenser, the principle and construction of which will be treated in a later article. Since the current in the secondary coil is of such high tension and "jumping power" its winding must be very highly insulated or the current will jump through and escape by short-circuiting and moreover, since the primary and secondary coils are both connected together at one point by grounding, the full pressure acts between the two coils and strong insulation must be used to prevent a short-circuit developing between them.

Questions of general interest to motorists will be answered in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope. Address Albert L. Clough, care of our office.



HOTEL ARRIVALS

REVERE HOTEL

E. P. McCarville, Kensington; A. J. Keays, Canso; Chas. A. Prince, Fredericton; W. H. Harper, Sherbrooke; E. M. Brown, Sherbrooke; H. Smallwood, Mt. Stewart; Wm. Rose Mt. Stewart; J. N. Wood, Pownal; W. J. Jenkins, Hazelbrook; W. L. French, Toronto; R. McArthur, New Zealand; W. B. McNeill, Montreal; Kentford, S,. Waite, Wilmont Valley.

VICTORIA HOTEL

J. Kennedy, Halifax; C. L. DeLaithe, Boston; C. W. Speirs, Toronto; M. A. Reid, Montreal; Miss Christina McLellan, Boston; L. T. Moffatt, Montreal; T. A. Cullin, Brooklyn, N. Y.

Auction Sale

I will sell for E. L. Coffin, St. Peters Harbour on Tuesday 16th at 12 o'clock all his stock, crop and implements consisting of choice stock, modern machinery, hay, grain, potatoes etc. No reserve as farm is sold.

If Tuesday is unfavourable sale will be held on Thursday the 18th.

H. H. COX,
Auctioneer

7566-3-12ME21.

TENDERS

The undersigned will receive tenders up to and including March 31th from persons willing to contract to make cheese for the Gowan Brae Dairying Association for season 1920 State wages per month

A. T. MCDONALD,
Secretary.

7595-3-13-MEsastuethusat4i

FOR SALE

Fifty acre farm, situated in Donaldston. Forty acres clear and in good state of fertility. Ten acres wood land. Good dwelling house and outbuildings. Pump in kitchen and barn, concrete floor in horse and cow stable. School at corner of farm. Two miles from Bedford Station. Ploughing done and two hundred and fifty loads of manure. For particulars apply

JOHN H. COURT,
7589-3-13-MEsattuethus. Donaldston.

NOTICE

The Annual General Meeting of the shareholders of the Telephone Company of P. E. I. will be held in the head office of the company, Queen St., Charlottetown on Wednesday the 24th day of March, 1920 at the hour of 8 p. m. for the reception of the annual reports.

The election of directors and the transaction of such other business as may properly come before the meeting.

WALTER S. GRANT,
Secretary.
7569-3-12-ME10i