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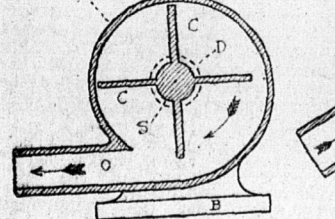
**HENDERSON AND CUDMORE**

**HINTS FOR The Motorist**

BY ALBERT L. CLOUGH

J. S. Summerside writes: .. When going over jolts in the road, the fenders of my new car often strikes the tires and sometimes the differential hits the floorboards. Would it be feasible to add another leaf to each of the springs and can I get spring clips long enough to use in such a case? I never carry more than the regular number of passengers and always drive carefully.

**Answer:** In the case of a new car such as this, we believe that the manufacturers should be willing to make these springs right and we suggest that you ask them to furnish you heavier ones and give you credit for yours. In case you cannot solve

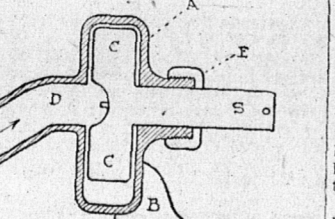


your difficulty in this way, you can have the additional leaf put into each spring and we think that you will find suitable clips upon the market. It is possible that by applying shock-absorbers of the frictional type to your present springs, you would be able to limit their action so as to avoid interference between fenders and tires.

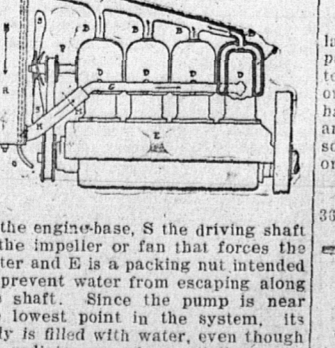
**HOW THE ENGINE IS COOLED. THE PUMP COOLING SYSTEM**

This system, also known as "forced-cooling" or positive circulation, differs from the thermosiphon system in that the water, which has absorbed heat from the cylinders, is pumped from the cylinder-jackets into the radiator, where it is cooled, instead of being removed from them by the natural flowing action, due to temperature difference. In the lower diagram M represents the point in the system where the pump is usually installed, viz.: In the pipe that leads from the bottom of the radiator to the return water manifold G. When

a pump is used, the areas of the pipes and jackets are usually smaller than in the thermosiphon system, because their friction is readily overcome by the powerful action of the pump; the dimensions of the radiator are generally less and the volume of water in the entire system is not nearly as large—the greater activity of its circulation making it a much better carrier of heat, per unit of volume. The pump takes water from the bottom or cool end of the radiator, and forces it through the branches D and through the jackets J, the overflow branches B, and the flow manifold F into the radiator—top C and downwardly through the radiator, to be recirculated indefinitely. The tank T may be much smaller than represented or entirely absent, as circulation will still proceed though the piping be not full. In the diagram is shown a simplified form of centrifugal water circulating pump, the left hand sketch representing it as viewed along its driving shaft, and the right hand sketch representing it as viewed from the side, the dotted circles in each figure, and the parts, in the right hand sketch, the pump is shown in section, as viewed



crosswise of its shaft. A is the body, with the inlet at D (represented by the dotted circle in one figure), and outlet at O B is the bracket which secures it to the engine-base, S the driving shaft C the impeller or fan that forces the water and E is a packing nut intended to prevent water from escaping along the shaft. Since the pump is near the lowest point in the system, the body is filled with water, even though the radiator may be partially empty and, as the pump is always connected with the engine, usually by S being permanently connected to a shaft operated from the front gears, it starts up stops with the engine. As the impeller C turns, water which has entered at the axis of the body through D is given a rotary motion by the impeller blades, in the direction of the curved arrow. The axis of the impeller, is so placed and the inside of the pump body so formed, that each impeller blade runs closely to the body for a part of its revolution, but has more and more clearance with it as it approaches the outlet O and in passing leaves it entirely clear. The water, whirled by the impeller, is thrown off the impeller blades, by centrifugal force, so that a pressure is set up against the inner wall of water body and when any particle of water reaches the outlet O this pressure acts to force it there through and into



**AUCTION SALE**

I will sell by public auction on my premises at South Rustico on Monday, December 22nd, 1919, at one o'clock sharp My Farm of 50 Acres with good dwelling house and outbuildings, clear and in a good state of cultivation, fronting on Rustico Bay, convenient to churches, schools and cheese factory, commanding a ne view of the surrounding country. Also stock, crop and implements, harness, etc., for purchasers of which see handbills.

Also the Rattenbury Property at Rusticville consisting of dwelling house, store, coal-shed, warehouse, wharf and lumber building.

**W. G. McCOURBIE, Auctioneer.**

3674-12-17M1H

the rest of the system, as described above. Meanwhile the water thus pumped is replaced by that which enters through D only to be whirled in the pump and sent into jackets with a considerable velocity, dependent upon pump speed and hence upon the speed of the engine. Familiar examples of machines in which centrifugal force acts to throw whirling liquid away from the axis of rotation are the cream separator and the centrifugal clothes-drying machines and the pump, here described in forcing the water outward and into the outlet acts in a similar manner. The difference in the methods adopted to cause a circulation in pump system and in the thermosiphon system gives rise to numerous differences in their performance, some of which will be referred to in a later article.

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.

**DISAPPOINTING**

"Sybil" the youth softly whispered to her, "I am going to tell you something. I do not know just how you will receive it but hope for the best. For some time it has been in my heart to tell you of it, but I had not the courage, Sybil."

"Yes, yes, Hubert—go on!" the girl murmured, the third finger on her left hand itching perceptibly.

"It's this. The last bus leaves the end of your road in three minutes and if I miss it I'll have to go home."

**FOR SALE**

I offer by private sale 150 acres of land being part of my farm at Keppoon, Lot 48—4 1/2 miles from Charlottetown. There is a good house and out buildings on the property. About half the land is cleared and the balance has a fair quantity of hard and soft wood on it. Will sell as a whole or in sections. Apply

**W. OWEN,**  
148 Pownall St.  
3329-12-17M41.

**NOTICE**

The undersigned do hereby advertise that application is made by the undersigned to the City Council for exemption from Taxation for five years on our new 120 bbl. Roller Process Flour Mill, which has been under construction for the past twelve months, and we expect to begin grinding wheat the first of the year.

**GEO. E. FULL & SON**  
3681-12-17Mwed41.

**NOTICE**

To be sold by public auction on Wednesday, December 24th at the Oyster Bay Fox Ranch at two o'clock p.m. sharp I pair foxes. Also a quantity of boards and fox wire. Terms cash.

**ANDREW GALLANT**  
Secretary  
3680-12-17M7pd.

**The Woman who Loved And Earned**

BY JANE PHELPS

A Modern Story of Home and Business

I was young and optimistic, also I was proud of my success. I had entered the shop in a lowly position, with a salary of five dollars a week. Now I was one of the head saleswomen, earning thirty dollars, and I was sure, rather than let me go, Madame Leets would raise me.

So the next day after my talk with Mary I forgot all about her anxiety over about Mother's opinion. I knew Mother was old-fashioned and knew many things; she had said that perhaps she was hopelessly old-fashioned in her ideas of marriage, and decided that she must be. Women had changed, their status in the business world had also changed. It was no longer only the women who were compelled by necessity to work who were in business, or occupied subordinate positions; but many wealthy women and girls perferred to be in some sort of business, and have their independence. So with a shrug I dismissed the matter, and went on with my preparations. I would be no parasite wife. I would help my husband by keeping tight on working. Our hours were the same; we could be together just as much as if I gave up my position and remained at home washing dishes, etc.—work I knew nothing about, but instinctively hated.

Mother and I had boarded. I was a school and her little income was not sufficient to keep us going. Unfortunately it ceased when she passed away. So I had had no chance to earn any of the household duties which come so naturally to girls reared at home.

But I had an idea that washing dishes, scrubbing, and work of that sort took all romance out of life. Had I felt we could afford a maid, I might have listened to Robert's idea that I leave the shop. But I knew that we could not on his salary, and for me—well, strong and capable (as I knew I was) to spend my time doing what I then considered mental work was not to be considered for a moment.

I had told Robert that he was being the times; that it was now considered perfectly an fit for a married woman to keep her position, and quoted several places of which I knew that were managed or owned by some "Mrs."

"But, Gerry dear, you don't know if they are happy or not. You know nothing of them—their domestic lives."

"They don't have any!" I replied, laughing.

"But their lives together, I mean. You know nothing of how they live, if they get on together."

"Why should success in business make a woman hard to get on with silly?" I asked, then kissed him. The first time I had professed a caress unasked.

"Have it your own way, sweetheart," Robert returned as he put to quarters about you, work, neither I want to quarrel about it, help feeling but it means more to me—us, than you seem to think. Can't you live it up, dear—to please me?"

"No, Robert, not even to please the dearest boy that ever lived. Why fear, it would be madness. With what we both earn we can be ever so comfortable. We can do things; go to the theatre and other places, without feeling all the time that we are extravagant."

"We will take them to some nice restaurant. It will be just as cheap, and more of a treat for them now that they keep house. No, Robert, you will have to think up something better than that to make me change my mind."

"All right, sweetheart, have your own way. But what would you do if I stopped, and a dull red flush crept over his face.

I looked at him in amazement. Then once more there was a flash through my mind something Mother had said in that last confidential talk we had had together. She had said:

"The women who go on working after they are married are not anxious for their children."

Could that be in Robert's mind? Perhaps—after a few years—perhaps.

**MAN'S BEST AGE**

A man is as old as his organs; he can be as vigorous and healthy at 70 as at 35 if he aids his organs in performing their functions. Keep your vital organs healthy with

**GOLD MEDAL HARLEM OIL**

The world's standard remedy for kidney, liver, bladder and uric acid troubles since 1893 corrects disorders, stimulates vital organs. All druggists, 50c a box. Look for the name Gold Medal on every box and accept no imitations.

**The Brunswick**

**For the Real Xmas Spirit**

Music is the life and soul of the Christmas party. The jolly crowd leaves the remnants of the festive turkey and plum pudding and gathers round the all-record Brunswick prepared to listen to and revel in the strains of Joyous Music. And with the Brunswick the field of choice is limitless. — Songs, dances, carols, band, orchestra — EVERYTHING that anybody wants. Because the Brunswick, without taking anything off or putting anything on will play EVERY make of record CORRECTLY.

This versatility of the Brunswick is due to the new

**Brunswick Method of Reproduction**

This method — developed by and exclusive to the Brunswick contains these two fundamentally different features:—

**The All-Record, All-Needle Ultona,**

is NOT an attachment, and it plays any make or type of record without taking anything off or putting anything on. A twist of the wrist—and it is ready for anything. No needles to change.

And it plays every record CORRECTLY, with just the right needle, just the right wright, and describing just the right arc across the record. And it makes your needle type records last much longer.

Since the Brunswick came with this wonderful invention, notice how they all say "Plays all records." Just you see how they do it—then come, investigate the ULTONA.

**The Round All-Wood Horn**

Artists sing INTO a round horn, and the Brunswick sends it OUT in a round horn.

That's a simple "secret", isn't it? And yet no one has ever made a round Wood Horn before—and more than that, no one else ever will, because this is one of the exclusive patented features of the Brunswick.

This one feature alone is responsible for much of the Brunswick's wonderful TONE. It makes every good record—of ANY make—better. Because it is all wood-built like a violin.

**Order Your Xmas Brunswick NOW**

There's going to be a shortage of Brunswicks this Christmas. Its great superiority has built up a tremendous demand for music lovers everywhere. So get your order into your Brunswick dealers NOW and thus be sure of having lots of good music pour ALL your favorite records on Christmas Day.

The Brunswick, with all its many betterments, costs no more than ordinary phonographs. Prices range from \$77.00 to \$395.00 — a model to suit every pocket book. Select YOUR Brunswick TONIGHT.

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**BALFOUR KEENLY REGRETS AMERICA'S FAILURE**

LONDON, Dec. 12.—Arthur J. Balfour, Lord President of the Council, in a speech today in London on world reconstruction, said: "One of the greatest of our allies feel that they cannot go through with us to the end in this process of reconstruction. I am not going to criticize, because I think it out of place for any foreigner to criticize any foreign power. But it would be a very poor compliment to my American friends to say that we regard with indifference the fact that they have not seen their way clear to carry their own co-operation with us in this work of industrial reconstruction to the end."

Mr. Balfour described the part America played in the war as noble and disinterested, with no thought of national ambition. "We are grateful," he continued, "but I confess I had dreamed that a work so nobly begun would be effectively carried through."

Mr. Balfour expressed the opinion that the future of the world would be assisted incalculably if the great English-speaking nations worked together in the cause of liberty and peace.

**Aid, Will Come**

"I know well in the cause of liberty and peace American co-operation will still be forthcoming," he said. "I know they are not going to abandon as a nation, and that no party in

American is going to abandon those great ideals."

The speaker, said he was bound to admit, however, that it seems more than likely that "we cannot count on the full on direct action, which would make the assistance of the great American democracy of ten fold value should it be forthcoming."

"Therefore," Mr. Balfour went on, "it is—and I know that what I say will not be misunderstood by American friends, even by those most convinced that the true interests of their country lies in an opposite direction—to me a feeling of deepest regret that so much of the common work of the two countries should come to an end before its full fruition could be enjoyed by the world at large."

**MORSE'S TEA in the FISHING FLEET**

A MUG-UP of hot tea getting aboard goes right to the spot and is one of the fisherman's greatest comforts.

MORSE'S has been the 'STANDBY' for nearly 50 years.