AUGUST 1, 1906.

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in suspension could easily be determined. I cannot estimate exactly what quantity of water would be required per day for the house, but I shall assume 100 gallons. For this amount the filter basin would require to have a surface of one and a half square feet, and should be seven feet deep. The amount of water that will pass through the filter per day will depend upon, first, character of the filter; second, the surface area of the filter, and, third, the depth of the water over the filter. A depth of three feet of water over the filter should furnish sufficient head to force the water through the filter. As to the filter itself, on the bottom should be laid a line of two-inch tile connecting with the iron pipe that leads to the clear water basin; over the tile, one foot in depth of broken stone should be laid; over that one foot of coarse gravel, then one foot of fine gravel, then from one to two feet of medium sand. Care should be taken to have the material of these distinct layers all of uniform grade. Each grade should be sifted, and the finer as well as the coarser grades removed. Any lack of uniformity in the size of the particles composing each layer will interfere seriously with the permeability. The total depth of filter should be from four to five feet, making seven or eight feet in depth over the whole basin. The top layer of sand will likely catch most, if not all, of the quicksand, which is removed from the water. Thus this She left her daring deed of gold quicksand will gradually accumulate in the top layer, and in time lessen its permeability, so that the filter will draw more and more slowly. It will, therefor be necessary occasionally to renew a part or all of the top layer of sand. The old layer should be scraped off and fresh sand put in its place. It is advisable to have a separate basin for the clear water, even if it is only a small one for in event of an unusually large demand, the filter may not be able to supply water fast enough, and in any event the filter does better work when allowed to work slowly and uniformly. The clear-water basin may stand with its bottom at the same level as that of the filter, and, of course, it should be as high as the filter.

J. B. REYNOLDS. Ontario Agricultural College.

#### WATER PIPE NOT WORKING.

I use a windmill for pumping water into a tank in the barn to supply the stables and house with water. I have always used a wooden tank until about three weeks ago. If the tank got empty and we started the mill to pump, we could get water at any place we wanted it right away. About three weeks ago, I put in a new steel tank, right in the same place where the wooden tank was. We cannot get water until the tank is one-third full. I feel satisfied that it is air in the pipes. Why should air stop since I put the steel tank i when it did not with the wooden one, and how will I remedy it?

### A WOMAN'S WAY.

The world is fuil of heroines

Whose brav'ry none can doubt; In circuses they face the lions, At home put thieves to rout. But when the storm has passed away, The trouble disappears, Why is it that they always say:

'She then burst forth in tears!''

A sudden panic thrills the school,

The children rush to death; The gentle teacher, calm and cool, Controls them with her breath. But when the horrid fear is quelled, The tumult once more sleeps, Why is it, by some force impelled, She "sits right down and weeps!"

The fire is burning in the mill,

The terror stricken run To dash pell mell across the sill

And perish every one.

A woman leaps before their path;

They stop in ordered streams They file to safety from death's wrath, While she sits down and screams!

l guess, from Helen, fair, of Troy, Unto Joan of Arc, 'Twas ever woman's way of joy To move in mysteries dark. No doubt, when Molly Pitcher, bold, In battle's blood was painted, And went right home and fainted.

-Baltimore Sun.



### of a World-Famed Remedy

Advertise in the Advocate.

Use my Invention for 60 days. If then cured, pay me. If not, return it. I ask not a penny in advance or on deposit.

DAVID

Health is happiness. It is the foundation-stone of the happy family. It is success in business; it is contentment and self satisfaction. You enter your home after your day's work, and even though tired, your buoyancy fills the house with joy and pleasure. Your friends seek you, and you are the centre of all that is true wealth-perfect happiness, cheer and contentment. All the money in the world cannot give you those if you have lost your health. The debilitate bring only misery into a family: are often shunned by friends, and are generally a failure in business or their vocation. Life is a burden to them. I think this state almost a crime when a reasonable opportunity is offered to overcome it. There is a way to overcome it. I have a cure for these unfortunate men and women, and since I found the remedy 40 years ago I have aided more than 100,000 to regain their health and strength.

My treatment for those who suffer from Rheumatism, Lumbago, Nervousness, Melancholia, Lame Back, Wrecked Stomach, Ataxia Partial Paralysis, general ill health, etc., is the simplest and most natural ever offered. It is Electricity. Everybody to-day knows that a normal quantity of it in the human body means perfect health and strength. A deficiency means weakness and disease. I can give you back this natural electricity and make you as well and strong as ever you were. So confident I am of what I can do, that to anyone suffering as above, I will give my World-famed, Dr. Sanden Electric Herculex, completely arranged or men or women, upon absolute



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that I could scarce-ly move about the house. I was subject to severe headaches, backaches and dizzi-nees; my appetite was gone and I was unable to do my housework. After using two bottles of B. B. T found my health fully restored. I warmly recommend Burdock LOOD

I warmly recommend it to all tired and worn out women."

## THE FARMER'S ADVOCATE Burdock

LOOD

CURES Dyspepsia, Boils, Pimples. Headaches, Loss of Appetite,

#### A SUBSCRIBER.

Ans.—It is evident that the air which was allowed to fill the pipes while the tank was being changed has not yet all been removed or, which is more likely, that some obstruction has got into the pipe, partially blocking it. The latter would account for checking the rate of flow from the tank and would allow air to remain in the pipe, and thus would lessen the pressure, which would account for the failure to flow until the tank is partially filled. Certainly. if the pipe were in the same condition as before, it would act the same under the same head It would be well to examine the pipe and remove the obstruction which is very likely there.

J. B. REYNOLDS. Ontario Agricultural College.

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So they dispatched a cable to Mr. James Gordon Bennett:

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