



The Howard Watch

AT NIGHT—with the train tearing through space—do you ever think of the man in the Engine Cab, his hand on the lever and his eye straining at the dark of the track ahead?

One thing shares with him his terrible responsibility—his watch, backed by the watch inspection system of the American railroads.

The HOWARD Watch is standard all over the American railroads—officially certified and adopted by the Time Inspectors.

The General Time Inspector of each railroad is an official of the Company. He is responsible for the accuracy and reliability of every trainman's watch on the road.

He has under him a staff of local inspectors—expert jewelers of recognized standing—to whom the trainmen submit their watches every two weeks for examination.

It is an expensive system to maintain—but it has made the American railroads the safest, swiftest and most efficient in the world.

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A HOWARD Watch is always worth what you pay for it. The price of each watch—from the 17-jewel (double roller) in a Crescent or Boss gold-filled Case at \$40, to the 23-jewel in a 14K. solid gold case at \$150—is fixed at the factory and a printed ticket attached.

You can buy HOWARD Watches in every part of Canada. Find the HOWARD jeweler in your town. Not every jeweler can sell you a HOWARD. The jeweler who can is a representative merchant—a good man to know.

Send us your name on a postal card and we will send you—free—the little HOWARD Book, full of valuable information for the watch buyer.

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Young stock, both sexes, for sale at reasonable prices.

Long-distance Phone L. O. CLIFFORD Oshawa, Ont.

QUESTIONS AND ANSWERS. Miscellaneous.

GIANT WILLOW-HERB OR FIREWEED.

What is the name of the enclosed weed? It has only a small pink and white flower. These are the pods, a little like a milkweed.

H. A. B.

Ans.—The enclosed pods are the fruit capsules of a common fence-corner weed, Giant Willow-herb, or Fireweed (*Epilobium angustifolium*). This is one of the plants that commonly springs up where forests have been cleared away and the ground burned over. The pods are from one to three inches in length, and contain a large number of downy-tufted seeds. It belongs to the order onagraceae.

CRIBBER — SPRUCE FERTILIZER — MUSHROOMS.

1. Could you advise me what to do for a horse that is a cribber? Could his teeth be fixed in any way so as to stop him?

2. What would be the best fertilizer for spruce trees?

3. What is the difference between mushrooms and toadstools?

N. P.

Ans.—1. Cribbing is a vice, and not a disease. It is very hard to check, and we know of no treatment of the teeth which will prevent or cure it. In the early stages, it can sometimes be checked by working the horse regularly, and keeping him in a box stall without mangers, racks, etc., which he would be likely to catch with his teeth. The walls or mangers can be daubed with some foul-tasting material, as an aloe solution. Buckling a strap around the horses throat rather tightly, but not so tight as to interfere with respiration or the ingestion of food, is often practiced. This device is only effectual while on the animal.

2. Coarse, strawy barnyard manure around the base of the trees will act as a mulch and fertilizer. This keeps down grass and weeds and holds the moisture, thus promoting forest conditions.

3. Unfortunately, some of the poisonous species (toadstools), and what are known as mushrooms, are so much alike that no one but an expert can tell them apart. The pink-gilled variety of field mushrooms is the safest to gather, because it is the easiest to identify. There are over 10,000 species of autobasidiomycetes, the series to which the mushroom belongs. Some are edible, but many are poisonous, and we would not undertake to differentiate between them.

HOMEMADE WINDMILL.

"The Farmer's Advocate" has been a welcome arrival at our home longer than the memory of the writer can span, and as this is the first letter of inquiry we have written to its columns, I take the liberty of writing in reference to a home-made windmill, made of wood, with steel bearing and gear.

1. What kind of wood should be used to compose the wheel?

2. Do the fans necessarily have to be concave shape, or would flat boards, turned with the edge to the wind, serve the purpose as well?

3. What width and length should fans be, and how many should be in the wheel?

4. For a twenty-foot tower, about what size should the base be, and what size at the top?

5. What sized cog-wheel would be right for the gear of wheel you would recommend?

W. J. Y.

Ans.—1. Tower, pine; frame of wheel, white oak, white ash, or rock elm; fans, pine, cypress, or clear cedar.

2. The fans may be flat, but they are not so efficient as the concave ones.

3. The number of fans varies, generally, from 60-90. For a 12-ft. wheel they should be about 4 feet long, and just wide enough at each end and throughout their length that the wheel, looked at from in front, would appear solid. In other words, they should be just wide enough that they will not overlap to any considerable extent.

4. Base, 6 to 8 feet square; top, 2 to 3 feet square.

5. Windmills for pumping are not usually geared. The wheel carrying the pitman is fastened direct to the shaft of the wheel.

WM. H. DAY.

BARN ROOFING

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MANUFACTURERS 753

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YOUTHFUL STRATEGY.

Mr. Slimson—"Willie, didn't you go to the trunk-maker's yesterday and tell him to send round the trunk I ordered?"

Willie—"Yes, pa."

Mr. Slimson—"Well, here is the trunk, but no strap."

Willie—"Yes, pa; but I told him I thought you hadn't better have any strap."

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