

Questions and Answers. Miscellaneous.

Speed for Saw and Wheel.

1. What is the maximum speed at which it would be safe to drive a 30-inch buzz-saw?
2. What would be the maximum speed for a six- or eight-inch emery wheel?

ENQUIRER.

Ans.—1. The average speed at which a 30-inch buzz-saw should run is 1,200 revolutions per minute. This, of course, allows a considerable margin of safety in case the speed should unavoidably run up.

2. For a six-inch emery wheel, it is considered safe to drive it at 3,200 revolutions per minute, and an eight-inch wheel, 2,400.

W. H. D.

Testing Milk and Cream.

I bought a Babcock tester for milk and cream a short time ago, but have not been able to get a satisfactory cream test with it. Should the brass pockets be filled with hot water the same as the directions given for milk? What color should the fat be when it is ready to read?

A. D. M.

Ans.—We never heard of filling the brass pockets with hot water for either milk or cream testing. Is your acid the right strength, and do you use the proper quantities and time for testing? You are likely getting burnt readings. The fat should show a clear, light-yellowish color on top.

A Refrigerator.

Tell me, through your paper, how to make a homemade refrigerator, and what material is required.

R. S. B.

Ans.—We have no complete directions for building of homemade refrigerators, as different conditions demand different sizes. We give herewith a few of the principles on which refrigerators are built, and from which you may be able to design something suitable. First, ice must be in the upper part as cool air is heavy and descends; second, water formed by melting ice must be run off to some receptacle in lower part or out altogether; third, inner walls, including cool chamber, should be of some kind of sheet metal, a good conductor; fourth, outer walls, between which there should be a space for circulation of cool air, should be thick with air spaces, and be of wood or other conducting material.

An Insect.

I am sending, under separate cover, a beetle that I found on the snow, and had been on either a poplar or a cedar tree. I would like to know its name, and if it is injurious to trees. When I found it, during a spell of frosty weather, it was hard, but after being in the house for a short time, it became soft, and though it is more than two weeks since I found it, it is still alive.

F. W. F.

Ans.—The insect which is in the pupal stage, belongs to the order Cicadidae. It is quite probable that it is the pupa of the common Dog Day Harvest fly, whose buzzing sound is familiar to all during the hot days of summer. The larvae live by sucking the juice of roots of trees and other vegetation. The adult feeds on foliage, and is not, as a general thing, numerous enough to do very much damage.

About Interest.

A gets money from B on A's pigs as soon as ready. A gave B the pigs inside of six months. Now B is wanting interest for that money. He is charging six per cent. the full time A had the money. Can B charge more, A not paying the interest to B yet? How much interest per cent. can B charge for the money?

J. B.

Ans.—Was there nothing stated about interest at the time the loan was made? We think there must have been some misunderstanding. If B was to have interest, surely the rate was mentioned. On such a loan, six per cent. per annum was not too high a rate at present, and it is likely B could collect it unless it was stipulated that no interest was to be paid. If he can collect interest, he may also collect further interest on the amount of interest due him until paid. You had better straighten the matter out between yourselves.



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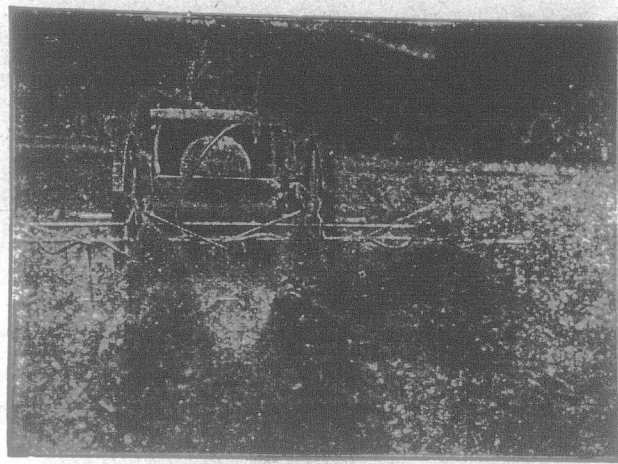
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