

work. These pumps will work on a Boyd or McAreavy vat, or any vat that is tight. Here is a chance for some one to save himself some work. Get up a small air pump that will run from a pulley, then attach it to the top of the vat and connect a pipe from the bottom of the vat to the churn and apply the air.

NO COMPROMISE.

A Washington dispatch refers to the Grout bill as follows: Plans are being made at this early day by senators and representatives interested in the anti-oleomargarine legislation to pass the Grout bill next December. The officers of the National Dairy Union have requested Representative Tawney, of Minnesota, to prepare and re-introduce the bill practically in the same form in which it was passed by the house at the recent session. The oleomargarine representatives are asking a compromise with the members from dairy states. Representative Wadsworth, of New York, chairman of the committee on agriculture, has requested a conference with former Governor Hoard, of Wisconsin, and Mr. Tawney, with a view to preparing a bill which will protect the dairy interests and at the same time not seriously injure the oleo industry. Mr. Tawney expresses the opinion that no compromise can be effected. He said:

"I am unable to see any line upon which a compromise can be effected. I shall re-introduce the bill in the next congress with the utmost confidence of securing favorable action. I say this because the committee on agriculture in the fifty-seventh congress will be almost entirely reconstructed. The present chairman will undoubtedly be reappointed, but some of the most ardent friends of the oleo trust who were members of the committee, notably Lorimer of Chicago, and Bailey of Kansas, will not be in the next house. The friends of the dairy interests feel sure that the places of these members will be filled by Speaker Henderson with men who will give us fair treatment."

Mr. Tawney added that the presentation of the bill as at present framed would obviate the necessity of holding hearings.

"If it is modified in any particular," said he, "it will give the oleo representatives an excuse for demanding hearings and thus jeopardizing the ultimate passage of the bill."

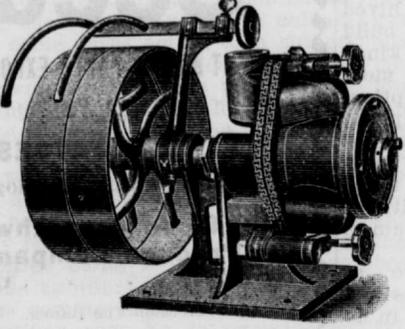
THE DUAL PURPOSE COW.

At the winter meeting of the Minnesota stockmen in St. Paul, Prof. Thomas Shaw started a lively discussion by praising dual purpose cattle. Among other things he said: Cattle kept for meat and milk production, or for milk and meat production, as the case may be, in my judgment always will be the class of cattle that will predominate on the average farm. Especially will this be true of farms rich in production, and more particularly will it be true of those large enough to maintain from 10 cows upward, or even a smaller number, so that a cream separator can be kept upon the farm.

There are several reasons why it should be so, the chief of which are the following: Good milk and beef production are not incompatible in the one animal. Growing animals for milk and meat will insure the more profitable consumption of all the varied food products grown upon the farm. Maintaining such cows and milking them by hand will be more profitable, relatively, than growing beef cattle only, where the calves suckle the dams. Such a system of cow keeping is a necessity to keep in equilibrium the production and market values of dairy products.

Which breeds furnish those dual purpose cows? The Shorthorns do in largest numbers, pure and in the grade form, for one reason among others that Shorthorns are by far the most numerous. And the place for

JUST RIGHT

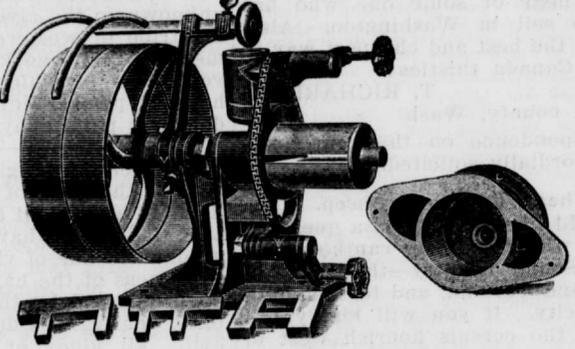


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the dual purpose Shorthorn is on the farm rich in productive power. Second in order come the Red Polls, not placed second because they are in any way inferior to the Shorthorns as dual purpose cattle, but because they are not so numerous. They are a little smaller than the Shorthorns, and in my judgment should be kept so. Hence their best place will be found on farms undulating and with fairly good production. The Brown Swiss are also good dual purpose cattle, with a leaning to milk. They have ample growth for beef production, but their strong bone development is somewhat against them for producing the highest class of beef. They are large cattle, with a leaning to beef. Their place is on hilly farms, with a proportion of bottom land for growing winter food. These animals, with their neat limbs and smooth, pony-like frames, dress well on the block and produce an excellent quality of beef. Dual purpose cows may also be obtained by taking large dairy cows of mixed breeding and crossing upon them Shorthorn, Polled Durham or Red Poll bulls from good milking families. In two or three generations of careful breeding the dual quality will assert itself.

How, then, shall the dual purpose cow be bred? Select large, roomy-bodied cows. Secure bulls inclining to the pronounced meat form to maintain stamina for crossing upon the cows. These bulls should be from dams in the near ancestry of which were good milkers. Feed the heifers in such a way that their milking powers will not be injured. Eliminate all

milk producers below the desired standard as soon as the fact is known. Persistence in such breeding will give the country such dual purpose cows as have not been seen in the land.

Oats and clover hay are the ideal feeds for pregnant ewes. An occasional feed of roots could be given to advantage.



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