The "SIMPLEX" Cream Separator

(2)

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shown in the illustration herewith, is a convenient ma-chine. It is of convenient height to operate. he supply can is low down, and yet the discharge pipes are highs enough up to discharge into standard sized milk cans

The machine is easily acce ible for cleaning. It is substan-tial and heavy. It will last allost a lifetime

It will pay you to know all about the "Simplex." There are exclusive features on the "Sim-plex" not to be had on any other separator.

In addition to the mechanical construction which is all to the good in In advision to the mechanical construction which is all to the good any your favor, we are surv that there is no manufacture using a higher grade of material than we use in the "Simplex" separators. Take for instance, the bowl spindle. It is mande of a special formula, furnished by one of the best metallurgists in the country. In fact, the consulting metalludgist for the leading manufacturers of American automobiles

The favorite everywhere it goes Note its beauty and heavy compar-construction, with low-down, hand supply can only $3\frac{1}{2}$ ft. from the floo

This steel is subjected to a special heat treatment, whereby it has an elastic limit, the supercons to a special next treatment, whereby it has an elastic limit, three limes as high as ordinary steel. The same is true of the bord cover, and of the raddle point or philon, that meshes with the larger super wheel. It is made of vanadium steel, or noisel steel, of the same kind that is used in the transmission gears in the best grade of automobiles. We believe that we are the first to use these special along steels in cream separator construction

The "Simplex." as far as we are able to judge, represents a higher manufacturer's cost than any other separator on the market. The two Heas-Dright Bearings that go in every "Simplex" Hand Separator, cost more than all the bearings put logother in most other cream separators. And yet on account of the large number that we import, single orders covering over 10,000 bearings at a time, we are able to furnish them as extras at a reasonable price, so that the cost of repla is not more than in other machines. nent, if need

We believe that "the proof of the pudding is in the eating." We allow you to try out the "SIMPLEX" on your own farm.

Write us to-day for free illustrated literature about the "Simplex." Arrange to have a "Simplex" Cream Separator on your farm. Then you will make sure that the "Simplex" is the best cream separator for you.





SOLUBLE SULPHUR

will make the crop into a market-mble product instead of a hog food. Use 10-1246 lbs. to 40 gallons of

NIAGARA BRAND SPRAY CO.

Write to us to-day about Sprays and Pumps. Tell us your problems -we will advise you fully. After the leaves and buds come it use SOLUBLE SULPHUR, 1-BURLINGTON, ONT.

1% ibs. to 40 gallons of water and

ARSENATE OF LEAD.

EVERYTHING FOR SPRAYING-Soluble Sulphur, Lime Sulphur, Arsenate of Lead, Dust Sprays and Dustors, Hand and Power Pumps and Accessories.

Milk Fever and Its Treatment Irving M. Avery, in H. F. Register

disease was pretty generally con-sidered fatal, and the unfortunate dairyman took his loss resignedly and said "Kismet," or perhaps other words said Alismet, or perhaps other words to the same effect. To-day, however, the situation is changed and author-fities claim that less than five per cent, or one out of every twenty only, of the animals afflicted die of this disease; and so this dread malady, which in the past has been the cause of heavy losses in the dairy herds of this and ther countries, because of the wonderful efficacy of the so-called sterilized air treatment, and the in-creasing familiarity of dairymen with its every-day use, no longer has the power of inspiring the fear in the mind of the average man that it once

In a few simple words which every one may understand I will try to call attention to this comparatively new treatment and to consider the dis-ease, its causes and effects. It is almost impossible in a short article of this kind to write anything of any particular interest to experience breeders or anything that has not already been said, in some form or other, many times before. That is not the idea, but, rather, to outline my own experience as clearly and simply as possible for the benefit of the layman.

average man reads "parturient paresis," or a "plethora of blood plasma containing an excessive percentage of glycogen" and he is apt to become discouraged, and no wonder. Well, all this is only a very wonder, weil, all this is only a very high-sounding and rather difficult way of saying just plain "milk fever," al-though to be exact, the disease is not really a fever at all, but anemia or lack of sufficient blood in the brain, brought on (or as a technical treatise might say "superinduced") at the time of parturition, or calving, by excess of blood in the udder excess of blood in the udder with a consequent uneven distribution throughout the circulator: system, re-sulting in anemia of the brain and a form of apoplexy

The Theory of Treatment.

The theory of successful treatment is so simple as to be readily under-stood by every dairyman once a clear comprehensive and thorough explana-tion has been made him. It consists merely of the proper inflation and distention of the udder by pumping in sterilized atmospheric air, thus relieving congestion and bringing about return to normal distribution lood throughout the body. So far as know, no animals other than milch cows are subject to this disease and usually attacks only those in the best condition and the heaviest milk-It rarely makes its appearance ers. until the animal is at her best, usual by from about five to seven years of age, and cows having had one attack are predisposed to the disease and more Hable to affliction than.in the of those that have never suffered from it. Heifers with first second calves are almost entirely free from it and I believe it is rarely manifested in cows over eight or nine years old whose milk yield has com-menced to decrease somewhat.

menced to decrease somewhat. The symptoms are luckilly very well defined and easy to recognize once one becomes thoroughly familiar with them. The animal is constipated, be-cause of the approaching paralysis of the bewels; is extremely realises: looks wild and staring from the eyes and stamp. Later on she will stagger and show signs of increasing weak-ness, expecially in the bind parts, until fin.Wig be collapsee completed? ntil finally she collapses completely,

April 27. 1916.

N^{OT} so many years ago the words invariably deopping upon the right "milk fever" and "total loss," side, with the head drawn around to were almost synonymous. This the left and admost touching the disease was pretty generally con-hind quarter on that side. Latter still, sidered tails, and the unfortunate paralysis by this time having become dairyman took his loss resignedly and general and if the stitek is severe add "Kimat" or merhane other words and far enough advanced, she ap-pears to all intents and purposes unconscious and may be handled at will. The eyes are observed to be fixed and glassy, and the body apparently insensible to any pain. The limbs may be placed in any position desired without the least resistance and the victim appears to the inexperienced very close to death. Right here it would be advisable to send an S. O. S. call for a veterinarian unless you are familiar with the handling of such cows and have at hand the necessary appliances and help, in which event expert assistance may hardly be ecessary

First Stage of Treatment.

If a competent veterinarian is sum-moned the proceedings on his arrival will be somewhat as follows: He will first of all order plenty of clean bedding and have the animal propped up from underneath the right side by means of bags filled with straw or means of bags meed with straw of some such contrivance, so that she may rest as nearly as possible upon the breasthone, the object being to take the weight off the right lung and thus relieve her respiratory action Next he will carefully wash the udder with antiseptic soap, placing a clean bag or cloth underneath to keep the parts clean; after which he sec111 horoughly disinfect the parts with a four or five per cent. solution of ly ol, pure carbolic or other equally good.

The apparatus used for ipjecting air into the udder is very simple and consists of a rubber bulb to be com-pressed in the hand, next to which comes an air chamber or reservoir of about the same size to regulate the pressure, and then comes several feet of ordinary rubber pipe or tubing halfway of the length of which is inhalfway of the length of which is in-cluded a small metal cylinder filled with carbolized co'ton through which the air passes, and on the extreme end of the rubber pipe is fixed an urdinary milking tube. The utmost care should be taken during the oper-zing to avoid all danger of infection and thus prevent inflammation of the udder or caked bag, with the possible loss of one or more quarters later on noint cannot be too emphatically emphasized. The milk tube should be boiled for at least ten minutes before use and then placed in a jar containing a five per cent, solution of the antiseptic solution at hand and allowed to remain for several minutes prior to insertion in the teat.

Be certain to avoid drawing any milk whatever from the udder betwee commencing operations. In fact, at Auray Farms, we make it a rule never at any time, whether sick or well, to milk a cow completely out until at least twenty-four hours after she has dropped her calf. The resulting complete distention of the udder has son what the same effect as the artificial distention by the air treatment and acts as an excellent proventive against an attack of milk fever. In the event of a very large and badly swollen udder a little milk may be taken if the cow seems all right, but only enough to afford relief and she is

The Pumping Process. When all the parts, including the operator's hands and the apparatus itself, have been thoroughly sterilized, carefully introduce the milk tube into one of the teats and commence pumping air into the quarter, meantin tapping and gently massaging th

(Continued on page 6.)



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