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# "Simplex" Cream Separator

The 1100-lb. size "Simplex" when at speed and skimming, takes no more power than the ordinary 500 lb. size Separator of other makes.



The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, handy supply can only 3½ ft. from the floor.

The large-capacity "Simplex" Hand Separator will

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Now, while you have time to read, send for a copy of our book describing in detail, the improved "Simplex" large-capacity, Link-Blade Cream

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When writing ask for an estimate on what it will cost you to put in a B-L-R Mechanical Milker to Milk your cows.

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THE SIXTH ANNUAL

# Dairy Magazine Number

OF APRIL 9th

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Advertising Department

Farm and Dairy, Peterboro, Ont.

#### The Rutherford System of Ventilation

F. E. Elis, Editor, Farm and Dairy

S TABLE ventilation is no longer Jad. By real good dairy farmers it is considered a necessity. Recently I was browsing through an address once given by Dr. J. G. Rutherford before the Agricultural Committee before the House of Commons, and discovered an interaction used by the doctor that explains so thoroughly the necessity of ventilation in gold weather (for everyone recognizes the need of ventilation in hot weather) that I herewith reproduce one paragraph for consideration.

"A great many dairymen and a great many cattle breeders," said Dr. Rutherford, "think that unless they can keep the stable at 80 degrees or 10 degrees in any weather they are going to be heavy losers, the dairymen in the flow of milk obtained and the cattle man in the flesh forming proclivities of the animal. Well, this room here is a very large and a very lofty room, and it is very much better constructed than the ordinary. That is to say there are flower and the same than the same than

CONDITIONS THAT TEND TO DISEASE TO DOESN'S DY. Rutherford's simile picture the situation nicely? The animals in a stable maintained at 70 degrees in very cold weather are mosphere that for foulness is absolutely indescribable. We may not notice it because many of us consider may be fouler than warm air that in the same condition whereas cold air as pure also the same condition and the same condition and the same temperature as the living comes of his house is considering more carefully is own comfort that the same temperature as the living comes of his house is considering more carefully his own comfort that the comfort of his cows. Careful experiments have proved that dairy cattle will do better with a temperature of 55 degrees and foul air. The doctor-went further than the enunciation of a principle. He invented a system of ventilation that mow bears his name and which is meeting with more ready adoption in Canada than the old-time King says.

The most noticeable difference be-

tween the Rutherford and King systems of ventilation is the position of the foul air year. Prof. KNag worked on the foul air year. Prof. KNag worked on the comment of the

As the foul air leaves the stable a partial vacuum is created and provision must be made to draw in pure air from another source, or the ven-

## Farm and Dairy's Referendum

Tarm and Dairy a REELEGRAM
The results of the Farm and
Dairy Referendum on questions of
national importance are published
on nogle I7 of this week's issue.
Eight hundred and seventy of Oue
Folks voted, and keed by substanman and privites. Farm and Dairy
regards the results of this, one of
the first Referendum of its kind
ever held in Canada, at elliments
ther provide in this ing independently.
Look up the results on page 17.

#### Summers

iliating flue will not perform its true function. In the Rutherford system these inlets are located at or near the floor. A box is built outside of the stable and chis connects in a U form, going down below the foundation and up through the floor inside to the stable. A modified system of this often used is to have an opening through the wall of the stable near she floor, with a box with the ends knocked out covering both the inside and the outside of the opening.

This box prevents direct draughts.

The beauty of the Rutherford system is its ease of operation, in coid weather the same free circulation can as the difference between the outside and the inside temperatures well induce too rapid a draught and the total would get actually one pursistem on a warmer the system on a warmer the control of the Rutherford system is the back draught or damper in the controlled by cord and thus the circulation of the skulpture of the Rutherford system is the back draught or damper in the controlled by cord and thus the circulation of the skulpture of the Rutherford system is the back draught or damper in the controlled by cord and thus the circulation of the skulpture of the skulptur

is under control of the herdsmen.

It is not necessary to cover the intakes. Cold air cannot rush into a stable unless the warm air has ar opportunity to rush out. Hence when the damper in the warm air went is closed the fresh air vents become in (Concluded on page 6)



Arrangement of the Hay Floor in a Model Farm Barn implete diagrams showing the stable arrangement, side elevation and framing this bars are featured on page fare of this issue. Attention is called to it is barn are featured on page favored in this diagram.



Trade Lacrease

Vol. XXXI

F INE farm featured such as Farm a the farm income to the farmers' built to satisfy which he and him A home, beat

the shade of g with vines, a w the road, when trusions by the yard that is ca with flowers-st farm women thr inside of the ' made their drea model kitchen for doing the m the sink are ta at a turn of the ped, also const In short, we fir past, have mad try girls that t heavily to rur thers.

The farmer h some day build But he also has When finances are the models his wife is plan



The Farmster