NEW PRINCIPLE IN SEPARATORS

Recent Patent of New Suction Feed Machine of Raisable Capacity Skims Milk at Any Speed

INDICATORS ARE UNNECESSARY

In view of the recent tests made by experiment stations throughout the country, in which it was shown that cream separators below proper speed and losing, colectively, more than \$100,000,000 a year in cream profits, which might be saved if the separatfast or slow-an invaluable feature absolutely new to cream separators. Cream Always Uniform

In addition to this valuable feature, another advantage of the new machine consists in its ability to produce cream that is uniform and even

of the oldest cream separator com-

more milk is sucked in, and vice ver- of the machine.

which run in a spray of oil in a clos- is run at the proper speed." ed case, protected from dust and for- Speed Indicators Cannot Stop Losses eign matter of every kind. Because er separator manufactured makes

other type bowl ever made. Cannot Be Overfed

ent, the suction is intensified and an speed, even during the short time re equally large quantity of milk passes quired to make the test. through the bowl. As the machine slows down and the centrifugal force light upon the practicability of the diminishes, the suction is also lessen- cream separator and should serve as ed and a smaller quantity of milk is a warning to the users of these maseen, therefore, that the skimming men to operate their separators as furs?" force and milk feed rise and fall to- their fancy dictates, without having force present therein.

The capacity of the new machine,

chine marks an important advance percentage of loss. But tests are not turns to 60 turns per minute in the change from 35 to 17 per cent. respective machines. If this speed was not maintained regularly, the tion of a cream separator, which purseparator did not skim clean and a ports to skim equally clean at any large percentage of the cream was speed and deliver cream that is unilost in the skim milk. At exactly form in density at any number of normal speed, that is, the speed indi- turns per minute, would seem to cated on the crank handle of the re- solve a very serious problem for daspective machines, all cream separ- irymen and, by preventing huge colators skim fairly clean, much clean- lective losses, add much to the profits asked simply "if anyone wanted a er than any gravity or deep setting of dairymen in general system previously in use. But in practice separator users cannot keep the speed exactly right and thus lose quantities of cream. The new Suction-feed Separator has the advantage of skimming clean at any speed, mals in live stock competitions a state, came offers to the little grand- ed all night will be charged extra.

Purdue Tests Show Losses

ly, counting the revolutions of the er. crank with watch in hand or by the In live stock breeding the sire is of different persons operate the maformity of speed unless each person makes an effort to count the crank revolutions by the watch." One-half Fat Lost at Low Speed

speed relatively, their experiments a eugenic standpoint. The capacity of this new machine, showed "that the low speed produced which is being manufactured by one very thin cream, while the high speed yielded cream of a very high is expected that the event in January panies in the United States, is term- per cent of fat. The richness of the

ed "raisable", in that it may be in- cream varied from 10.8 to 62.7 per creased at will simply by turning the cent fat, according to the speed apcrank handle faster than normal plied. The low per cent of fat from the low speed separation was partic-The new suction-feed principle, up- ularly due to the great loss of fat. At on which the success of the machine low speed, over one-half of the fat depends, operates as follows: The was lost in the skim milk. This last Some sing the praise of Portland, Me. speed of the machine creates a suc- factor, the excessive losss of fat in tion in the bowl which sucks milk in- the skim milk, is in itself sufficient to it through a hole in the bottom. to condemn the use of any speed low-Hence, the higher the speed, the er than that indicated on the crank

"The speed of the separator also Obviously, a very high centrifugal affects the amount of cream producforce is necessary to accomplish both ed. The lower the speed, the more functions, an this in turn is made cream. This increase in the amount possible by the singular construction of cream, however, is more than offof the separator bowl, which is in the set by its reduction in richness and form of a steel tube, ranging in di- fails to fully compensate for the low We ameter from 1% to 21/2 inches and test. The total amount of butter fat in length from 12 to 18 inches. This contained in cream, therefore, is bowl is suspended from a single ball much less in the case of a low speed bearing at top and is driven by gears separation than where the separator We knew a man who talked about

Following the announcement of of the high gearing of the machine, the Purdue tests a certain large man- Do we ever hear YOU boasting, tho' the bowl achieves a normal speed of ufacturer of speed indicators con-16,000 revolutions per minute, which ducted extensive tests to see what Remember, you can talk about it, evis very high, considering that no oth- percentage of cream separator users were able to turn separators at the more than 8,000 revolutions. The speed demanded by the manufactursmaller the diameter of the bowl, be- ers of the machines. At the state ing driven at this high speed, creates and county fairs, in the booths of this an intensely high centrifugal force, company, separators of different which separates the cream and skim makes were set up and visitors were milk quicker and cleaner than any asked to operate the machines according to the directions on the crank handles. In many thousands of An advantage of the suction-feed tests, made in all parts of the counprinciple lies in the fact that the try at different fairs under widely same force which does the skimming varying conditions, it was found that also draws the milk into the bowl. 90 per cent of the individuals who When the speed is high and a large participated in the test found it imamount of skimming force is pres- possible to maintain the requisite an?" said Freddy.

These facts obviously throw a new gether. No more milk can ever en- some assurance that they are getting ter the bowl than will be skimmed the full percentage of cream and that gree of uniformity.

Milk Test No Cure-All

by which is meant the amount of It might be said in closing that too milk which can be separated in a much confidence cannot be placed in given time, usually one hour, is reg- the skim milk test as a cure-all for ulated by the suction-feed principle. butter fat losses. When a test of A cream separator of the new type, this kind is made, the stage is usualin one of the average dairy sizes. ly set for it and the operator keyed which skims 400 pounds per hour at up to a pitch which enables him to 45 turns, will skim 500 pounds per make a good job of it. When the parents are not real." hour by simply increasing the crank machine reaches maximum speed and the creaom and skim milk are run-It will be readily seen, therefore, ning freely, the tester is applied and mamma picked me out. Yours had that the invention of this new ma- the result usually shows a very small Heretofore, it has been absolutely shown by experiments that a drop in child. necessary that all separators be turn- speed of two of three revolutions per ed at a given speed, ranging from 45 minute is sufficient to cause a cream

In view of these facts, the inven-

The Sire or the Dam

Lafayette, Indiana, and published in National Western Stock Show at Bulletin No. 150, Vol. XV, issued by Denver, and who has been making a that institution in August, 1914, are specialty of baby health contests from a eugenic standpoint, has taken The proper speed of a cream sepa- issue with the old saying as far as rator "is indicated on the crank han- human breeding is concerned. She dle of the machine. It varies from insists that the dam is really more about 40 to 60 turns of the crank responsible for her offspring than the per minute, according to the make of sire when it comes to babies, and at the separator. If the separator is to the annual Denver show, where the yield cream of uniform richness, it babies are judged by comparison, must be given the same speed at each she insists that the mothers be presskimming. This is possible only if ent and that the judges when in the operator times himself frequent- doubt take a good look at the moth-

use of a patent speed indicator. The importance only when he is prepotmore than 90 per cent of all cream absence of this precaution renders ent; that is, when he is able to reseparator users were turning their the work unreliable. The general produce himself in his offspring. This tendency on the part of the operator is also important because of the fact is to overestimate the amount of that one sire mates with a number work he puts into the machine; the of females and the uniformity of his machine is run at too low a speed. breeding depends entirely upon his or were operated correctly, it is in- Even the same operator, unless he prepotency. In human breeding the teresting to note that a new-princi- time himself, may vary the speed child may as often resemble the pie cream separator has been patent- very considerably at different times, mother as the father, and there ed, which will skim clean no matter depending on his frame of mind and seems to be no statistics along the whether the speed of the crank be physical condition. Again, where subject of prepotency in the male human. The old proverb, "like father, chine, there can be but little uni- like son," does not always apply. More often it is like mother, like son. Dr. Bates is making some investigations in connection with the annual baby show at Denver and hopes with-Continuing, this same bulletin says in a few years to have some interestin density at varying speeds of the regarding the effect of high and low ing data that should be valuable from

The baby show at Denver is run upon a strictly scientific basis, and it will be of more than usual interest.

OUT OF THE GINGER JAR

Boost Your Own Town and some of Portland, Ore.,

While others cannot talk enough about old Baltimore; You can spot the gay New Yorker and the breezy man from "Chi" And we've met with those who told

'us: "See Los Angeles, then die." But do YOU sing the glories of your own home town at all? Remember, you can talk about it, ev-

en if it's small.

en if it's small.

hear a lot of Frisco's charms from people of the West; We've been assured that of all cities Denver was the best;

Seattle by the hour. And one who talked of naught but

Minneapolis-and flour: about YOUR port of call?

About Dixie's lovely cities we have heard ad nauseam:

There are those who even Baraboo with no faint praise w uld damn We'll remember all our lives a man who from St. Louis hailed,

And another who to talk of Philadelphia never failed: We hear a lot of Buffalo, of Pitts-

burg, or St. Paul, So why not try to boost YOUR town, no matter if it's small?

"Aunty, did you marry an Indi-

"Why do you ask such silly questions, Freddy." "Well, I saw some scalps on your dressing table."

"Little boy, is that your mamma drawn into the bowl. It will be chines, who permit careless hired over there with the beautiful set of

"Yes, sir." "Well, do you know what poor animal it is that had to suffer in order perfectly clean by the skimming it is being delivered with some de- that your mamma might have the furs with which she adorns herself

so proudly?" "Yes, sir-my papa."

Picked Her Out

Two very nice little girls had quarrel one day. "Anyhow," said one to the other, who was an adopted child, "your

Whereupon the other little girl retorted, "I don't care, my papa and hope. to take you just as you came."

"What are you crying for, my poor in cream separator construction. made every minute and it has been little girl?" said a man to a crying "Pa fell downstairs."

"Well, don't cry, my dear. He'll get better soon."

"That isn't it. Sister saw him fall -all the way. I never saw nuffin."

She Was Wanted

A few days ago a "business personal" appeared in a newspaper, inserted by a sweet-faced little woman, made helpless by rheumatism, who grandmother". Then she spent a troubled, sleepless night, wondering Hotel de Luxury, "how these hotel eral generations and I decided to try if anyone would see her ad, or, see-There is a saying among stockmen ing, give it heed. The world was is it, pa?" asked his wife. "Why one all over the world that "the bull is due to jeer and sneer-but it didn't. of these rules says, Don't blow out simply ask for a kidney remedyhalf the herd," and in judging ani- The next day, from all over the the gas, and another says, 'Gas burnhigh or low, thus preventing this loss. great deal of attention is given to the mother. Several hurried to the ad- Now what's a fellow to do?" sire. Dr. Mary Elizabeth Bates of dress given, to find themselves too

.. Announcement ..

Opening of the Grocery Department of the Palace Meat Market

Our large stock of New and Fresh Groceries is now on the road and we expect to open for business on

Saturday, November 13

We will carry a complete line of groceries, with a stock large enough to supply any demands.

Our Meat Market

will be maintained at its usual high standard. Deliveries of both groceries and meats. We will appreciate a call from old customers and welcome new ones.

The Palace Meat Market and Grocery

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er for her little one. And more: Of- Sunday school class, "Who made the fers of financial assistance poured in, world?" The little fellow with quivand physicians offered free medical ering voice replied, "I didn't." The service for her rheumatism. So, at bishop astonished at the answer derays upon a countenance wreathed in I did I won't do it again." smiles and eyes that shone again with

That's the Question In one of the N. Y. public schools the teacher was explaining the word 'recuperate" to the class.

"Nellie," she asked, "suppose your papa worked very hard all day, he n't he?" "Yes."

"Then when night comes and his work is over for the day, what does he do?'

"Ah," replied Nellie, "that's what mother wants to know."

"Just see," said Farmer Hayseed, people try to bleed a fellow." "What

ment Station of Purdue University, nual baby health competition at the little daughter had "adopted" a rather suddenly to a little boy who and the appetites of his neighbor's

mother for herself and a grandmoth- stood trembling at the head of his chickens. eventide, the sun which had risen on manded, "What do you mean?" Still a sad and hopeless woman shed its more frightened, the lad replied, "If

A FAIR WARNING

One That Should be Heeded by Alliance Residents

Frequently the first sign of kidney trouble is a slight ache or pain in the loins. Neglect of this warning makes the way easy for more serious troubles-dropsy, gravel, Bright's diswould be tired and worn out, would-lease. 'Tis well to pay attention to the first sign. Weak kidneys generally grow weaker and delay is often dangerous. Residents of this locality place reliance in Doan's Kidney Pills. This tested remedy has been used in kidney trouble over 50 years-is recommended all over the civilized world. Read the follow-

James A. Kersey, Chadron, Nebr. says: "I had slight symptoms of disas he read the rules and regulations ordered kidneys. There had been tacked on the door of his room at the Bright's disease in my family for sev-Doan's Kidney Pills. This medicine soon cured me.

Price 50c, at all dealers. Don't get Doan's Kidney Pilis-the same that cured Mr. Kersey. Foster-Milburn Co., Props., Buffalo, N. Y.

The success of an amateur garden-Recent tests made at the Experi- Denver, who has charge of the an- late, for at sunrise a widow with a Bishop Earl put this question er often depends upon the number

Speaking of names-A. Nutt. of Minneapolis, Minn., wants a divorce.

Watch Your Step! Let Me Help You Movel

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I'm the original Willing Worker of Sleepless Town. I'll help you buy a house, move into it, sell it or trade it-and do it quick