SYNOPSIS. leaves Glenarrives in Miss Naida and Lieut, B Brant and on informs the Shevin receives him. Miss Spec-ton. Tells him as it is Murph from Slavin. Slavin he wants, and Ma scuffle Slavin is kil Hampton surrend marshal. Mob at Mason and his priand defend themse to burn them out, he loves her. She insurrountable ha Buck Mass res set by th and Mason from mob. Brant ca after Murphy ha for Custer. He fi mined to wring f Comes within sig practically confesses to the killing of Maj Brant for which Capt. Nolan was convicted and sentenced to dismissal from the army and ten years in the peniten tiary. Murphy goes insane. Brant'

CHAPTER XXXIV .- Continued. Nor was it long delayed. Scarcely

the old regiment and the request i

pack train on Hampton and

troop guarding Cu-Little Big Horn re Murphy, Hampton Join Custer and de Tells Brant Naida

Telis Brant Naida is Nolan who was combis father. Murphy, clear Capt. Nolan of ers his mind. Leaves bearing on the subject be goes to join Caste first day's fighting. Horn. Brant's troop train and not exact.

had the troopers recovered, refilled their depleted cartridge belts from waited their coming. The short, the level in the sunlight, and then belched forth their message of flame into the very faces of those reckless horsemen. It was not in flesh and blood to bear such a blow. With screams of rage, the red braves swerved to left and right, leaving many a dark, war-bedecked figure lyriderless pony skurrying over the How very nice that he should happen prairie. Exultant over their seemingly successful repulse, the men flung themselves again upon the earth, their cheers ringing out above the thud of retreating hoofs.

"We can hold them here, boys, until Reno comes," they shouted to each other.

The skulking red riflemen crept ever closer behind the ridges, driving their deadly missiles into those ranks exposed in the open. To the command of the bugie they discharged two roaring volleys from their carbines, hopeful that the combined sound might reach the ears of the lagging Reno. They were hopeful yet, although one troop had only a sergeant left in command, and the dead bodies of their comrades strewed the plain.

It was four o'clock. For two long hours they had been engaged in ceaseless struggle, and now barely a hundred men, smoke begrimed, thirsty, bleeding, half their carbines empty, they still formed an impenetrable ring around their chief. The struggle was over, and they realized the fact. When that wave of savage horsemen swept forth again it would be to ride them down, to crush them under their horses' pounding hoofs.

Like a whirlwind those red demons came-howling wolves, now certain of their prey. On both flanks of the short, slender line struck Gall and Crazy Horse, while like a thunderbolt Crow-King and Rain-in-the-Face attacked the center. These three storms converged at the foot of the hill, crushing the little band of troopers. With ammunition gone, the helpless victims could meet that mighty onrushing torrent only with clubbed guns, for one instant of desperate struggle. Shoulder to shoulder, in men stood shielding their commander face. Then he spoke. to the last. Twenty or 30 made a de- "Naida," he said, gravely, "I have letters were calculated to revive the as my wife's husband."—Judge.

| spairing dash, in a vain endeavor to A detachment of the Eighteenth in-fantry from Fort is thune trapped by Indians in a narrow gorge. Among them burst through the red enveloping but the most remained, a thin struggling ring, with Custer in its center. also Gillis the der. Gillis and Then came the inevitable end. The red waves surged completely across the crest, no white man left alive

> good fight; they had kept the faith. Two days later, having relieved Reno from his unpleasant predicament in the valley, Terry's and Gib- his arms. bons's infantry tramped up the ravine, Naida and emerged upon the stricken field. In lines of motionless dead they read the fearful story; and there they found that man we know. Lying upon a bed of emptied cartridge shells, his the published list; his name was not they were recognized by him, or body riddled with shot and mutilated among them." Nev. Wynkoop. with knives, his clothing torn to rags, his hands grasped a smashed and She informs twisted carbine, his lips smiling even Gently he drew her down to a seat in death, was that soldier whom the chief and to die for its honor-Robert | with doubt. Hampton Nolan.

CHAPTER XXXV.

The Curtain Falls. Bronzed by months of scouting on look upon his face, and the bars of a battle, in the ranks of his old regicaptain gracing the shoulders of his ment-died as he would have chosen new cavalry jacket, Donald Brant to die, thank God! completely cleared trotted down the stage road bordering of every stain upon his honor. Sit

come back, as I said I would, and been forwarded to the department at surely I read welcome in your eyes?" Washington, and will undoubtedly re-"Yes." sult in the honorable replacing of "And I have come to say that there your father's name on the army list, is no longer any shadow of the dead I will tell you briefly the man's conbetween us." fession, together with the few addi-She looked up quickly, her hands tional facts necessary to make it clasped, her cheeks flushing. "Are clear.

his full duty, Naida, and died as be- behind the powder house, they ran

"Your father and mine were for

many years friends and army com-

rades. They saw service together dur-

ing the great war, and afterward upon

the plains in Indian campaigning. Un-

enough to accompany Mrs. Nolan

home at a late hour from a post ball.

It was merely an act of ordinary cour-

suddenly upon my father, then on the

the men instantly fired. Then they

ran, and succeeded in gaining the bar-

She sat as if fascinated by his re-

"Your father heard the shot, and

sprang toward the sound, only to fall

headlong across my father's lifeless

revolver was jarred out of its holster

An instant later the guard came run-

ning up, and by morning Capt. Nolan

was under arrest charged with mur-

der. The circumstantial evidence was

strong-his quarrel with the mur-

dered man, his heated language a

fort, taking you with her. From that

hour none of her old acquaintances

whereabouts. She did not return to

her family in the east, nor correspond

with anyone in the army. Probably, ut-

terly broken-hearted, she sought seclusion in some city. How Gillis ob-

tained possession of you remains a

They kept silent for a long time, the

slow tears dropping from her eyes,

her hands clasped in her lap. His

heart, heavy with sympathy, would

not permit him to break in upon her

deep sorrow with words of comfort.

"Naida," he whispered at last, "this

may not be the time for me to speak

such words, but you are all alone

now. Will you go back to Bethune

with me-back to the old regiment

A moment she bowed her head be-

"Say to me again what you once

"I wish you to be very happy, Nai-

"Yes, I feel you do, and I am; but

for I have lost so much-so much.

(The End.)

fore him; then lifted it and held out

could learn anything regarding her

racks unsuspected."

onment."

ing lips.

mystery."

"Is that all?"

"Everything."

as my wife?"

her hands. "I will."

upon his shoulder.

I-I hope he knows."

"Donald, I love you."

stand; perhaps you mistake my mean-"I know it all," he answered, soberly, "from the lips of Hampton." You have seen him? Oh, Lieut. Brant, please tell me the whole truth. the day he rode away to Chevenne not come back to me. You cannot much he has become to me through years of kindness." "You have heard nothing?" "Not a word."

you sure? Perhaps you misunder-

Brant drew a long, deep breath. He tesy; but gossips magnified the tale, had supposed she knew this. At last and bore it to Nolan. Still smarting he said gravely: "Naida, the truth from the former quarrel, in which I will prove the kindest message, I fear my father was in the wrong, he think. He died in that unbroken ring left the guard house with the openly of defenders clustered about Gen. avowed intention of seeking immethe plains. A cavairy, Lieut. and the field. They had fought a Custer on the bluffs of the Little Big diate satisfaction. In the meanwhile malk carrying for every hundred speed of 2,000 revolutions per minute. Horn.

Her slight figure trembled so vio- Flynn, who had been to town without lently that he held her close within passes, and were half-drunk, stole through the guard lines and decided "There was a smile upon his face to make a midnight raid on the colowhen we found him. He performed nel's private office. Dodging along

came a soldier and a gentleman." "But-but, this cannot be! I saw way to his own quarters. Whether whether drink made them reckless of

"The man who fell was Robert consequences, is unknown, but one of Nolan."

upon the soft turf of the bank. She Seventh had disowned and cast out, looked up at him helplessly, her mind but who had come back to defend its seemingly dazed, her eyes yet filled cital. "Robert Nolan? My father?"

He bent over toward her, pressing body. As he came heavily down, his his lips to her hair and stroking it tenderly with his hand. and dropped unnoticed in the grass.

"Yes, Naida, darling; it was truly those northern plains, a graver, older Robert Hampton Nolan who died in



"Donald, I Love You."

the Bear Water, his heart alternating | up, little girl, and listen while I tell between hope and dread.

The familiar yellow house at the cross-roads appeared so unattractive the soldier's daughter." those of their dead comrades, when as to suggest the thought that Naida | She uplifted her white face. "Tell the onslaught came. The soldiers must have been inexpressibly lonely me," she said, simply, "all you know." during those months of waiting. He brown-barrelled carbines gleamed at knocked at the sun-warped door, fully, the details of that desperate Without delay it was flung open, and journey northward, of their providena vision of flushed face and snowy tial meeting on the Little Big Horn, drapery confronted him.

"Why, Lieut, Brant! I was never Hampton's riding forward with dismore surprised in my life. Do, pray, patches, and of his death at Custer's come right in. Yes, Naida is here, side. While he spoke, the girl scarce and I will have her sent for at once. ly moved; her breath came in sobs Oh, Howard, this is Lieut. Brant, just and her hands clasped his. ing dead behind them, and many a back from his awful Indian fighting.

> to arrive just at this time, isn't it?" The young officer silently accepted announce his arrival.

"Why 'just at this time?' " he questioned.

and myself. We shall be so delighted proved." to have you witness the ceremony. It is to take place at the church, and Murphy?" my people insist upon making quite an affair out of the occasion-Phoebe is so popular, you know."

The lady again bustled in, her eyes glowing with enthusiasm. "Why, I think it is perfectly delightful. Don't von Howard? Now Lieut, Brant and Naida can stand up with us. You will, won't you. Lieutenant?"

"That must be left entirely with Naida for decision," he replied, soberly.

There was a rustle at the inner door, and Naida stood there. Their eyes met, and the color mounted swiftly to the girl's cheeks. Then he stepped resolutely forward, forgetful of all other presence, and clasped her Tender Missives Certainly for Once hand in both his own. Neither spoke a word, yet each understood something of what was in the heart of the other.

"Will you walk outside with me?" hear alone."

you. There is in the story no word which does not reflect nobility upon

He recounted to her slowly, careof the papers left in his charge, of

"These are the papers, Naida, I opened the envelope as directed, and found deeds to certain properties, including the mine in the Black Range; Mr. Wynkoop's extended hand, and a will, duly signed and attested, namfound a convenient chair, as Miss ing you as his sole heir, together with Spencer hastened from the room to a carefully prepared letter, addressed to you, giving a full account of the crime of which he was convicted, as well as some other matters of a per-Mr. Wynkoop cleared his throat, sonal nature. That letter you must Why-why, you see, we are to be read alone as his last message, but married this evening-Miss Spencer the truth of all he says has since been

covering. His sworn deposition has be said to be practical?-Outfitter.

said." and their lips met. da, dear," he whispered, drawing her

The Impractical Silk Hat. There are people who would have you believe that a silk hat is necessary to a business man's attire, and is She glanced up at him quickly. "By a practical adjunct to his bodily covering: but how can a hat that ruffles up Yes, by Murphy, who is now lying in the first puff of wind, or looks like in the hospital at Bethune, slowly re- a drowned rat after a shower of rain,

Letters Wiped Out Debt.

Answered Good Purpose.

New Brooklyn church in Sicklerville, ner. Every female member of the by a new coat of paint. She bent her head, and with a brief | church wrote a letter to all the boys word of explanation to the others, the that were her schoolmates in bygone young officer conducted her forth into days, no matter where they now lived, the bright July sunshine. They walk- soliciting contributions. The men ed in silence side by side along the members likewise wrote to their bank of the little stream. Brant glanc- schoolgirl sweethearts of long ago.

spark of affection that was kindled when the writers were youngsters, but as husbands and wives were allowed to read one another's letters not a There was great rejoicing in the case of jealousy is recorded. The money came in so fast that in a short N. J., when the last dollar of the debt time the entire debt was paid off, and he asked, at last. "I have much to against the parsonage was paid. The as the contributions are still coming say which I am sure you would rather money was raised in a popular man- in the parsonage will be brightened

His Promise Fulfilled.

"You told me," she said with a pout, three months after their marriage, "that you intended to die a bachelor. "To all intents and purposes," he sadever-contracting circle, officers and ed furtively toward the sweet, girlish Many a pleasant correspondence de- ly replied. "I have lived up to my veloped, and it is said some of the declaration. I am known now merely

FINDING PROPORTION OF CASEIN IN MILK BY SIMPLE TEST

Process Similar to That for Determining Amount of Butter Fat in Milk-By Prof. E. B. Hart, Chemist, Wisconsin Experiment Station.

In the milk of individual cows, there | includes the circle formed with the fortunatetly a slight misunderstandis certainly no definite and constant pockets distended, and is 15 inches. ing arose between them. One night I have missed him so much, and since they openly quarreled when heated relation between the amounts of fat Six or 12 pockets as desired can be by wine, and exchanged blows. The and casein. One animal may yield a arranged in this circle. The centrifuge one word to explain his absence has following evening your father chanc- milk containing 2.7 per cent. of casein should be strongly made and run ing to be officer of the guard and on and six per cent. of fat, while another easily by hand to 2,000 revolutions per understand what this means, how duty, my father, whose wife had then produces a milk 2.7 per cent, casein minute. It should be encased in order been dead a year, was thoughtless and four per cent of fat, and still anto avoid accidents. The experimental other, a milk carrying 3.5 per cent. of centrifuge used in evolving this test casein and six per cent, of fat. These is encased with the revolving cups arfigures are actual analyses of milks of ranged to turn in the regular 16-inch individual cows in the university herd. | diameter twentieth century Babcock Expressed in another way, we have fat tester. The only modifications are milks where for every hundred pounds the structure of the wheel carrying of fat, there may be anywhere from 46 the pockets and the pockets themto 73 pounds of casein. Surely it is selves. The gears are also arranged clear that for cheese production, a in order to give easily by hand a

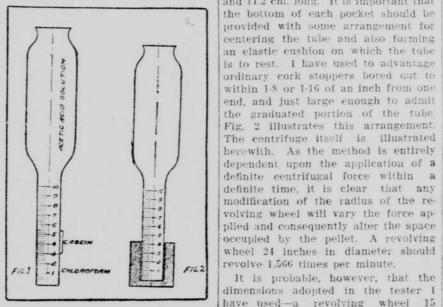


Fig. 1.-Form of tube used in making casein determinations.

Fig. 2.-Casein tube and cork supfew moments previous, the revolver port.

lying beside the body, having two would yield more cheese than one conchambers discharged, and his being taining but 46 pounds of casein. This found there alone with the man he had is not fiction.

gone forth to seek. Slavin and Flynn But why emphasize this fact of the both strengthened the case by posi- variation of the casein and fat content served milk, where practicable. tive testimony. As a result, a court of milk? Simply this, that in the martial dismissed the prisoner in disminds of not a few dairymen, cows' be sure that the sample of milk is a grace from the army, and a civil court milk contains these constituents in a representative one. Use 2 cc. of chlorosentenced him to ten years' impris- definite and fixed relation. That when form, 20 cc. acetic acid solution, and the fat increases, the casein rises in a 5 cc. of milk. "And my mother?" The question fixed and definitely related proportion. 3. Have the temperature of the was a trembling whisper from quiver- This may or may not be the case. It acetic acid solution and the milk bemay be true if we average a great tween 65 and 75 degrees F.; 70 degrees "Your mother," he said regretfully, number of milks, but here lies our is to be preferred and is more acwas an exceedingly proud woman, be- most important point, and that is that curate. longing to a family of social promitit is not the average that is to guide 4. Do not shake the mixture more nence in the east. She felt deeply us in our methods of improvement, but than 20 seconds. Fifteen is probably the causeless gossip connecting her rather the exception and the deviation ample, but shake with reasonable name with the case, as well as the from the average. The producer and vigor. open disgrace of her husband's con- the cheese maker who pin their faith 5. Make sure that the speed of the viction. She refused to receive her to such a belief are in the path for centrifuge is 2,000 revolutions per minformer friends, and even failed in progress. Normal milks vary greatly ute, for 71/2 or eight minutes, with the loyalty to your father in his time of in their composition and are greatly diameter of the revolving circle 15 trial. It is impossible now to fix affected by a variety of conditions, inches. the fault clearly, or to account for her such as individuality, breed, advance 6. Allow the tubes to stand ten min actions. Capt. Nolan turned over all his of lactation, etc. The estimation of utes before reading.

Slavin, Murphy, and a trooper named pounds of fat 73 pounds of casein, The pockets are 2.8 cm. in diameter and 11.2 cm. long. It is important that the bottom of each pocket should be provided with some arrangement for centering the tube and also forming an elastic cushion on which the tube is to rest. I have used to advantage ordinary cork stoppers bored out to within 1-8 or 1-16 of an inch from one end, and just large enough to admit the graduated portion of the tube. Fig. 2 illustrates this arrangement. The centrifuge itself is illustrated herewith. As the method is entirely dependent upon the application of a definite centrifugal force within a definite time, it is clear that any

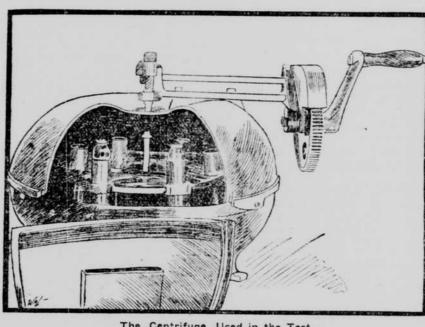
> revolve 1,566 times per minute. It is probable, however, that the dimensions adopted in the tester I have used—a revolving wheel 15 inches in diameter, with the casein tubes themselves revolving in a circle 14.75 inches in diameter and at a speed of 2,000 revolutions per minute -will be suitable for most occasions. In making the test the following conditions must be observed:

wheel 24 inches in diameter should

1. Make the test on sweet, unpre-

2. Make the tests in duplicate, and

property to her, and the moment she any single constituent, as fat, only al- 7. The following preservatives could do so she disappeared from the lows us to guess how much of any should never be used when this test is



The Centrifuge Used in the Test.

other of the milk constituents is pres- | to be applied: Formaldehyde, corrosive ent. The breeder, through the Bab- sublimate, chloroform and toluol. head tenderly down until it found rest high. Where, for instance, instead of ragged and irregular. it cannot come all at once, Donald, a milk with 73 pounds of casein per hundred pounds of fat, we can produce a milk containing nearer 100 pounds portions of milk to one-half tablet of of casein for 100 pounds of fat.

> Where chemical analysis has been applied to the milk of individual cows, for the Babcock test, gave accurate it has revealed the fact that the relation of casein to fat is a variable one, longer time tended to make the readthat for 100 pounds of fat we may ing ragged. have anywhere from 50 to 70 pounds of casein, and occasionally even a be used for the test. wider variation. These variations are individualistic and not confined to any one breed, but may occur among cows

ing the test is shown in Fig. 1. This and should contain up to the neck not stroyed. less than 35 cc. The tube is approximately 14 centimeters long (equivalent to 5.6 inches); the neck is constricted to a diameter of 1.8 cm. The barrel including the neck has a length of 7 cm. with an external diameter of from 2.6 to 2.7 cm. The graduated tube is approximately 7 cm. long and 1.2 cm. external diameter. Each division of the scale represents .1 cc. and 2 per cent, of casein where 5 cc. equivalent to 5.15 grams of milk are used in the test, assuming the specific gravity of normal cows' milk as 1.030. The graduations extend from zero to 10 per cent. This is amply sufficient for all normal milks. The 10 per cent. mark represented on the scale should correspond to exactly 5 cc.

Under the conditions of the test the standard size. The diameter adopted is often a fine tonic.

Gently he drew her down to him, cock test, has made a butter cow, one 8. Experiments with potassium where the fat is unusually high, and dicromate showed that in the proporhe has done this by selection. It does tion of one tablet to 300 cc. of milk not seem at all impossible that with accurate and sharp results can be oba simple casein test, the cheese cow tained when the preservative is in concan be developed; one where the rela- tact 96 hours or less. Above that time lation of casein to fat is especially it is liable to make the casein pellet

9. Composite samples, made by con secutive 12-hour additions of small potassium dicromate, as is the usual practice in accumulating milk samples results at the end of 31/2 days. A

10. In no case can coagulated milk

Whitewash the Hoghouse .- White washing the interior of the hoghouse of different breeds, or among cows of should not be delayed till too late in the same breed. This emphasizes the the season. A good coat of whitewash importance of a casein test to sup- now will prevent the increase of displement the fat test where the milk ease germs when the warm weather is to be valued for cheese production. begins. Success in combatting the The form of the tube used in mak- spread of disease is attained only by having a disinfectant ready for every should be made of well annealed glass germ when the germ is the easiest de

> The Kicking Horse.-Do not startle suddenly the kicking horse. A quietly spoken word as you enter the barn and a gentle touch before entering the stall will quiet the animal. In many cases a horse kicks through fear.

> Winter Layers.-In selecting fowls for winter laying one must choose only those in good condition. They must have strong constitutions to withstand the strain on their vitality.

> Begin at the Right End.-When man starts in with the milking stool to "educate" his cows he has another guess coming as to the party who is in most need of education.

Feeding the Sick Hog.-Be careful wheel carrying the bottles must be of not to overfeed the sick hog. Hunger

"NONE BUT THE BRAVE." ETC.



Voice (in a plaintive whisper)-Do! Just one, Maud!

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flammation, allays pain, cures wind colid. 25c a by The ancestor of every action is a

thought .- Emerson.

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