

REFRIGERINE.

Rooms by Chemical Action.

There has been a good deal of inquiry about the use of refrigerine salts to be used for the cooling of rooms in which Herald: to place milk, cream, butter, cheese or any other perishable product that refrigeration saves from going to decay as fast as it would otherwise. A statement of the results claimed to be accomplished by the use of such salts has been sent at patriotism and ridiculing all feelings out rather prematurely, we conclude- of veneration for the American flag, we conclude so not because of any doubts when they advocate a policy that would we have regarding the possibility of achieving the ends claimed, but because the intensely practical part is yet in the embryotic state, so far as furnishing the material it takes at so cheap a rate as to compete with ice in all locations where the crystal crop can be secured for ted that that policy—the American systhe cutting, handling and storing.

We have learned that it is quite confidently expected that the saits can be furnished ere long at about one cent per pound, whereas they now cost about ten cents. But all that have yet been mannfactured have been the product of small factories or laboratories, and so made expensive. There is now being fitted up, and nearly ready to run, a large manufactory in Chicago with very large refrigerating rooms attached, in which goods are to be placed and the business tried on a large scale, to demonstrate-if the company can-the utility and cheapness of that method of securing cold storage.

While in the city we saw not only the preparations being made on a large scale, but saw a small room containing. we should judge, 500 cubic feet, that was refrigerated by the process to 36 degs. Fahr. at the bare running cost of "reclaiming" about 300 pounds of salts from the 700 pounds of brine it was in. the 400 pounds of water by heat, when the dry salts are used over again. In a place where steam is used it is claimed the exhaust steam as it passes from an engine to the open air can be utilized to boil down the brine, without cost other than the tank and coil of pipe to transmit the heat. If it is desired to use it

to leave the salts dry. But as we said, the practical use of it in butter and cheese factories, or for private butter makers, is not yet matured so that they can be ordered and put to service. Sizes, prices and cost of the apparatus and cost of salts to use it are yet in the undetermined future. The problem is to cheapen the production of the salts. That it will cool we have demonstrated through feeling and by reading the record on the thermometer.

where no steam power is used, any meth-

od that will boil water can be used to

drive off the moisture of the brine, so as

Where ice is almost a myth, even the present price of the salts would be emed a mere bagatelle in comparison with the worth of the refrigeration it will secure. - Hoard's Dairyman.

Heating Separator Skimmilk.

Mr. A. D. Peck, proprietor of the Pearl and "C" creameries, at Sac City, Ia., is entitled to the credit for having first practiced it, for he heated the skimmilk at his creamery all through the year 1888, one year before the Mason City creamery was organized. "It came about in this way," writes Mr. Peck to The Journal. "The creamery in which I now am had originally been a gathered cream one, the proprietor failing. After two years a separator was put in by a merchant in town. The farmers complained of the milk returned and in early fall it ceased operations.

'I was convinced that the fault was not with the system, but with the manner of operating, and started in the next spring—1888. In order to overcome the objections I was obliged to do all in my power to have everything in 'apple pig' order. I had read somewhere that heating milk would prevent its souring. After experimenting I found that by heating the milk to about 140 degs. Fahr, the milk would remain sweet for at least twenty-four hours. I put my knowledge into practice and so far removed the objections at first existing that I was fairly deluged with milk the second season, that of 1889. I have a pipe on purpose for heating and it is constantly in use.

"The heating will not make sour milk sweet, nor keep from souring that which is already tainted, but it certainly will keep sweet milk sweet in spite of hot weather. I do not agree, however, with Hoard's Dairyman that the milk ought to be cooled again. I think, rather, that the can should be shut tight after heating and remain closed. Your idea of the bacteria getting to it again is a correct one."-Creamery Journal.

Milk Testing Machines.

The men who invent and the men who operate the various milk testing machines, whether as lecturers, seeking to teach and to introduce improved methods, or as agents, trying to sell the machines, one and all underestimate the practical difficulties of successfully using them in working dairies, because they lost sight of the fact, if they know by experience, that there is a difference between operating the machine when that is the only thing you have to do and operating it between times of a half dozen other pressing daties that will not wait. The lecturers and the agents have nothing else to do and it is very easy, but not so the busy dairyman. -Jersey Bulletin.

The oleo dealers of Philadelphia de-

PROTECTION AND OUR FLAG.

Our National Banner Is the Fitting Em-

blem of Our National Policy. In the campaign of 1888, who can recall with-out shame the impudent appropriation of the national flag as an exclusive symbol by the protectionist party and the relegation of its opponents to the British flag, thus proclaiming a moral disfranchisement, denaturalization and deportation of one-half the citizens of the United States.—New York Evening Post,

Without attempting to answer The Cooling Milk, Butter, Cream and Dairy Post's broad question, we simply desire to call its attention to the following editorial utterance of another great Mugwump free trade newspaper, the Boston

> "The American flag is simply a number of pieces of textile fabric, of three different colors, sewed together for the of these sweet summer hours shall find the "The American flag is simply a numdifferent colors, sewed together for the purpose of making a predetermined

combination. When free traders are found sneering break down our industries and hand over our markets to foreigners, they surely cannot blame protectionists for classing them as adherents of Great Twill be as whole and happy as before? Britain rather than of the United States. Whatever else may be said of our protective policy, it must at least be admitted that that policy—the American sysAnd yet, I think,
tem, as it was named by its great exWhen time or change, or both, have snapped pounder, Henry Clay-is one which is designed to stimulate a sound and healthy American sentiment.

It emphasizes the importance of American industries, American markets and American workingmen. Its fundamengreat enough. American talents are varied enough and American laborers intelligent enough to enable us to manufacture at home everything that we are not precluded, by climate or other natural causes, from producing. It is an American policy, broadly, consistently American, and as such its most appropriate emblem is the American flag. great enough, American talents are vapriate emblem is the American flag.

American Agriculture Prosperous. The agricultural class deserves some

special consideration. It may be asked, If farming is not profitable, why do crops increase? If market gardening is not profitable, why does the product increase in quantity and in value? If Reclaiming" simply means expelling farmers do not prosper, why is it that there is a constantly increasing demand for labor on farms at wages that are much higher than they were ten or twenty years ago, to meet which demand for farm labor there is no sufficient supply?

I anticipate the bugbear of the mortgage, but about that we are beginning to have data sufficing for a true solution. It is not true that the farmers, taken as a body, especially in the west, are oppressed with heavy mortgages. The reverse is true. Let it suffice to refer to the special census bulletin giving statistics of farm lands and mortgages in Illi-In this return, compiled by Mr. John S. Lord (whose reputation is well known to every one dealing with statistics) and by Mr. George K. Holmes, a separation is made between mortgaged acres and mortgaged lots. Dealing with mortgaged acres as a representative of mortgaged farms, we find that the per- My friends would look upon my quiet face centage of the mortgage upon the true Refore they laid it in its resting place valuation of all farms taxed in Illinois And deem that death had left it almost fair; And laying snow white flowers against my

nois are subject to any mortgage, the percentage of the total number of taxed And fold my hands with lingering caress acres represented by the number of Poor hands, so empty and so cold tonight! mortgaged acres being only 30.78. Dealone-half of the farms of Illinois are sub-jected to a mortgage, and the average mortgage upon that part incumbered by debt is less than one-half its specific value. This official statement confirms
the judgment which I had formed from
data secured in a much less adequate

If I should die tonight,

Even hearts estranged would turn once more
to me,

Recalling other days remorsefully. manner from other states. - Edward At-

Every man, woman and child in the So I might rest, forgiven of all tonight.

You cannot import cellars or houses to drive the mason or carpenter out of which the mason or carpenter out of the tenderness for which I long tonight.

Tariff protection is intended merely to do for glass blowers and wool growers

But even in tariff protection all the I'd like to choke, being but 'brutal man.'
That Mother mild other classes are interested. For whom does it protect?

The farmer, the manufacturer and the mill hand may be more directly bene- And gives it at the loudest of its fit fited, but the good results of our pro-tective tariff reach all.

Where would the lawyer and doctor get their generons fees if clients and At its first cry the ewe quits clover eating And runs, perforce. patients were out of work or received

the bookkeeper, the stenographer, the typewriter and even the office boy make a living if there were the office boy in the stenographer. The swith a fat grab to her nested darling. make a living if there were no customers "She-mercy everywhere, she-pitying with well filled purses?

rith well filled purses?

And if the professional man or mer.

You Boston girls seem up to everything:
Tell me the reason?

Tell me the reason? chant could not build or rent the roomy home or store or office, where would the mason, the carpenter and the painter get his four and five dollars per day?

How would the engineer, the fireman, the conductor and the brakeman fare if no money could be afforded for passenger and freight transportation?

protected. The 97 per cent., they say, is taxed to protect the 3 per cent. But Yes, one thing stronger and more high than God. they are just 97 per cent, out of the way. Which, if man had not, then should God. American Economist.

Hamilton a Free Tradert Congressman William L. Wilson has an editorial in the St. Louis Republic of May 10 in which he indignantly denies that the patriots of postreyolutionary Except they bred not, bore not, hid not slaves. that the patriots of postrevolutionary

GEMS IN VERSE.

Two Truths.

"Darling," he said, "I never meant
To hurt you," and his eyes were wet
"I would not hurt you for the world.
Am I to blame if I forget?" "Forgive my scifish tears!" she cried, "Forgive! I knew that it was not

Because you meant to hurt me, Sweet-I knew it was that you forgot!" But all the same, deep in her heart Rankled this thought and rankles yet—
"When love is at its best, one loves
So much that he cannot forget,"
—Helen Hunt.

He Had Better Propose at Once.

A courteous close to all our pleasant speech; When you go out into the hurrying crowd, To battle with a warrior iron browed, For all the worldly blessings which you claim, Wealth, power and fame, Things which I do not crave and cannot reach, I wonder if your heart will be the same, Will beat as even and as tranquilly

Away from me?

Ambition has broad leaves, which overgrow The feebler heart plants, blooming small and

the link
Which holds us ne'er so lightly heart to When you have found out new and pleasant

From these apart,
Have loved fair women and have known great tal doctrine is that American skill is Perhaps grown great yourself, and tasted

brain,
"Ah, me! how little she was like to these! Would I could look upon that face again!"

-Boston Transcript.

The Question.

I asked her today, But she gave me no answer, Neither word would she say, Though I asked her today In the most approved way
Of the modern romancer.
I asked her today.
Ent she gave me no answer.

SHE.

He has spoken at last—
Shall I take him or leave him?

At my feet he is cast; He has spoken at last. If his hopes I should blast, Would it really grieve him? He has spoken at last— Shali I take him or leave him?

Or a penniless masker? I must find out today If he's rich, as they say, For she's not said him nay, And again he may ask her. Is he rich, as they say, Or a penniless masker? -Yankee Blade.

If I Should Die Tonight. If I should die tonight,

as only 18,27.

Less than one-half of the farms in IlliWould smooth it down with tearful tender-

If I should die tonight, ing with the mortgaged acres only, the average of the mortgage to the true valuation is but 42.27 per cent. It some gentle word the frozen line had said: true valuation is but 42.27 per cent. It Some gentle word the frozen lips had said; therefore appears that much less than Errands on which the willing feet had sped;

If I should die tonight.

Would look upon me as of yore perchance, And soften in the old familiar way. For who could war with dumb, unconscious

Country.

There are no unprotected trades.

Those so called, the building trades for example, have absolutely prohibitive protection.

Oh, friends, I pray tonight,
Keep not your kisses for my dead, cold brow:
The way is lonely, let me feel them now.
Think gently of me, I am travel worn;
My faitering feet are pinched with many a

what nature has done for the mason and the carpenter.

[A dialogue at Boston, U.S. All What nature has done for the mason and the carpenter.

[A dialogue at Boston, U.S. All What he said, "my fair American! You noisy child "See there," he said, "my fair American! You noisy child "No noisy child".

"Takes all its howis for music, comforts it

"And there again, you little lambkin bleating-

"And yet again that purple winged hen star-

"Why, certainly," she smiled: "don't poets Better than others?

And yet they tell us that only about 3 One fairer thing he showed him, and in might per cent. of our labor and industry is protected. The 97 per cent., they say,

And that was Liberty.

And gladly sbould man die to gain, he said,
Freedom, and gladlier, having lost, lie dead,
For man's earth was not, nor the sweet sea

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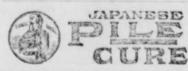
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Terms of saic: One half cash, remainder on



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system the elements thus strength and vigor will fol-

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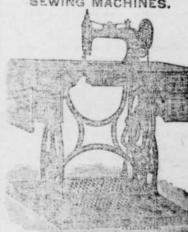
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