

product, although a fairly good one, would be condemned, and the second, whilst poor would be approved. With the Babcock test and milk standards, we thought the end of our troubles had come. But milkmen were again equal to the situation, and made use of the new machine to further their own ends. They reasoned and proceeded as follows:—Municipal ordinances call for 3 per cent. of fat, ours contain four per cent. We will simply add to it water enough, to reduce the fatty contents to about 3.25 per cent. and the milk will still stand above municipal requirements.

**BACTERIOLOGY AND MILK CENTRIFUGATION:**—Then bacteriology coming to the rescue of hygiene, revealed to the world the great extent of milk pollution, and Boards of Healths at once established bacterial standards condemning milk containing over 100,000 bacteria per cent.

We thought then, that the dishonest milkmen were caught, at last; but no, they at once proceeded to originate other means of evading the law. They began to clarify milk by the use of a centrifugal apparatus running so slowly that cream separation would be incomplete, but in such a way as to leave a large portion of the bacteria amongst impurities adhering to the sides of the machine.

By this treatment, they succeeded in delivering to their customers milk containing less bacteria than the quantities allowed by municipal regulations, but, this product remained unsound on account of its poisonous properties and did not keep any longer than ordinary milk. Hence, during the last 25 years we have striven hard to find some effective means of inducing milkmen to produce and deliver sound, clean milk, and I am sorry to say that so far, the results are far behind our expectation. Each effort, made either by boards of health, or scientific commissions to attain this most desirable object has been checked by similar efforts made by dishonest milkmen, so as to keep a market for the sale of their unclean and adulterated products. I say dishonest, because fortunately we have some honest men in the trade, well-disposed to do justice to consumers, but, unfortunately, their milk sells at the same price as the worst of their neighbours.

Milk dealers are intelligent, they understand that the quality of milk is to them a question of dollars and cents. Let us give them a higher price if needed, but let it be understood that it must not be adulterated, and that it be rich in fat and other required elements.

Like other men they are willing to make an honest living, but when conditions are placed in their way, which makes it impossible to do so, they will likely find some way of keeping their families out of the most pressing needs. They must stand the struggle for life.