



between Palmerston North and Welling- More attention is being given to it now be sure that it will pay him to drain ton. Sir John was in New Zealand for than for some years past, and the ob his land, before starting on the job. a very short time and was naturally un- ject of the present article is to sumwilling to say much about his impres- marise methods so that farmers may sions of our farming methods. The know which type of drainage will prove interview, therefore, centred principally most suitable for their needs. Unforaround English farming practices, and tunately, it is almost impossible to at length we reached the subject of give accurate costs, owing to lack of drainage. At this time the train was information on New Zealand work. passing through low-lying country, Readers who have assessed drainage much covered with rushes, and by way costs in connection with work on their of driving home his point, Sir John said farms will be doing fellow-farmers a that in England such country would service if they would write us, giving certainly be drained—probably mole details of the area and cost. drained—because it sloped gently, and offered excellent scope. In almost every district he had visited in his hurried visit he had noticed this lack of drainage, made apparent by sour land and the growth of rushes and weedy grasses. He was offering no criticism. He admitted he did not know whether it was or was not economical to drain it, under the conditions existing here.

drained.

why much of this land has not been est. It sometimes happens that the drained. The cost is too heavy, lease- cost of doing this work is excessive. HEN Sir John Russell— holders are not encouraged to spend and that drainage rates on the land are distinguished director of money in this direction, the necessary too heavy, but from the practical side Rothamsted Experimental implements are not available, etc. the fact remains that hundreds of Station in England—was Nevertheless, properly considered, tons of butter-fat are being taken from visiting New Zealand, the drainage is an investment that will this land, which previously was usewriter travelled by train yield (in the long run) dividends, just less. The economical side of the case with him for some part of the journey as will the application of fertilisers. needs watching, and the farmer must

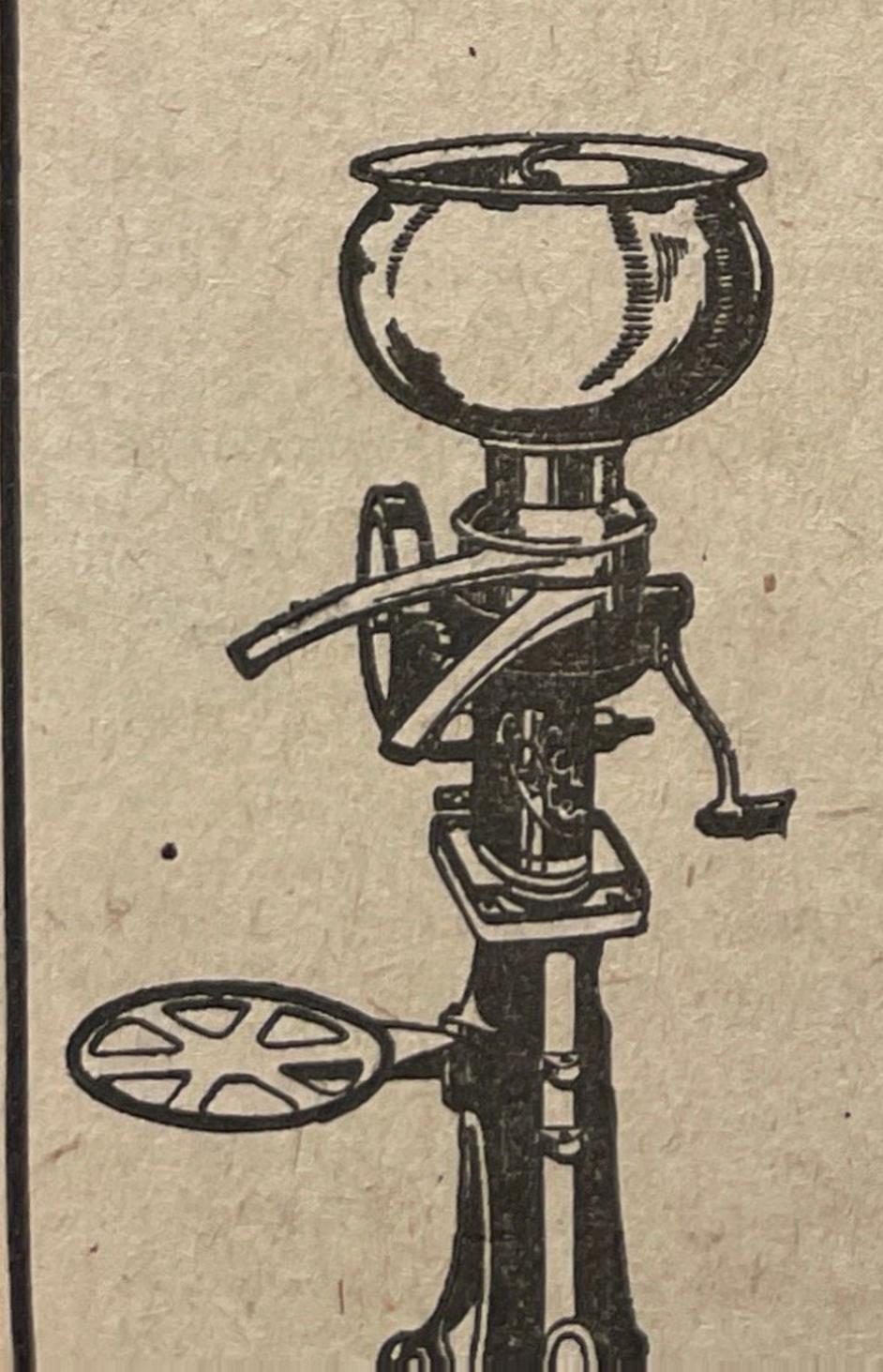
Reasons for Drainage.

ing the lowering of the surface water, (Continued on page 20.)

New Zealand, the Rangitaiki area in There are probably many reasons the Bay of Plenty being one of the lat-

Owing to the decay of rock and or ganic matter, waterlogged soils are usually very alkaline in nature, and in a clogged soil there is not enough leaching. Every farmer with low-lying, wet land knows how the surface water becomes stagnant. Drainage prevents this, and allows the soil to receive plenty of oxygen from the air. Plants need oxygen just as much as we ourselves need it, and the nitrifying bacteria which live on clover roots, and which supply cheap nitrogen to the soil, need it too.

REFORE detailing the various types Drainage beneficially affects soils in of drainage, it will be as well to several different ways. When water is run over the effects of drainage, and lying too near the surface, the surface to point out that drainage is always soil is full of water, and little air can better carried out when soils are fairly get in. Then, again, when the water wet, rather than in the summer months. is removed to a lower level by drain-Several big drainage schemes, involv- age, roots penetrate more deeply, open-



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