

Such devices need adequate cleaning and oiling from time to time, and the valves should be kept free from grit.

Pendulum Type Automatic Pulsator

The objection to both the previously-mentioned automatic pulsators is the fact that they vary their speeds with such factors as temperature, vacuum, etc. The pendulum pulsator is an automatic pulsator, operated by two diaphragms and a slide valve mechanism. A pendulum is connected to the slide mechanism, and controls its speed of operation. This method effectively overcomes the problem of maintaining a steady speed with an automatic pulsator.

There are several types of automatic pulsator used only on bucket-type machines. As these have a very limited interest to New Zealand farmers, a description will not be given.

The importance of automatic pulsators lies in the fact that they may be used on milking machinery not driven by mechanical vacuum pumps. When a water-operated pump placed some distance from the shed is used it is not

possible to employ a mechanically-operated pulsator unless a special motor is installed for this purpose only. It was this fact which made such pulsators so popular before the wide-

spread use of electrical power developed and when water-operated vacuum pumps were used in considerable numbers.

(To be continued.)

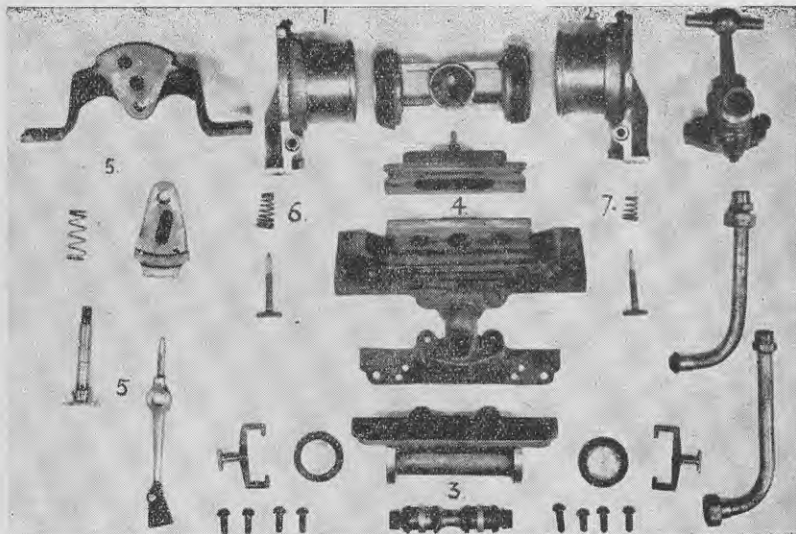


Fig. 11(b).—The parts of the pulsator shown in Fig. 11(a).

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