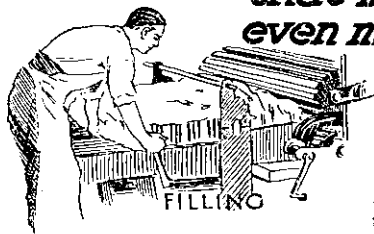
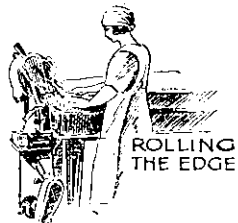


A New Process

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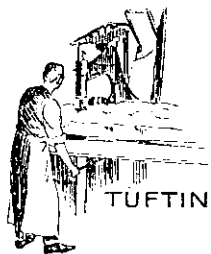


HOW Durodown advantages have grown—first the layer filling; then the reinforced centre; then the rolled edge, all made possible at no increase in price by special labour-saving machinery.



And now every Durodown is supplied in a new air-tight wrapping that positively protects it from all dust, dirt and germs right from when it leaves the factory until it is unwrapped in your own home. For hygiene's sake **INSIST ON A DURODOWN!**

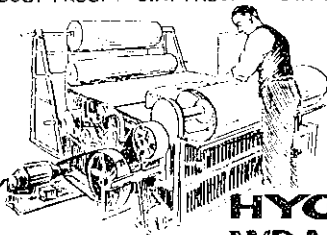
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The DURODOWN MATTRESS.

In the New Sealed Wrapper
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IF you get a sudden cut or bruise, burn or scald, apply a remedy known for its great soothing and curative powers. Heal it with Zam-Buk!

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The Cost of Electric Service

THE two most familiar questions asked concerning every domestic electrical appliance are—what will it do? and, what will it cost to use? The first question must be dealt with in respect of each individual piece of apparatus, and the more important ones are discussed later. The method of determining the cost of operation is the same for every device.

First, it is necessary to know the rate at which the appliance will consume electricity when in use. This is measured in "watts," and may be ascertained in most cases by

rate of a third rated at 600 watts. Now, the quantity of electricity an appliance consumes naturally depends on the length of time it is in use, and the time-factor must be taken in account when determining "quantity." One hour is the time-unit commonly used, and a 300-watt appliance in service for one hour is said to consume $300 \times 1 = 300$ watt-hours. Similarly, in two hours the consumption would be $300 \times 2 = 600$ watt-hours, and again in half an hour it would be $300 \times \frac{1}{2} = 150$ watt-hours. In exactly the same way the quantity of electricity



The family of Mr. & Mrs. F. Crosby, of Whangarei

Art Studios

reference to the maker's label affixed to the machine. A few appliances carry no such indication, however, and for these reference would have to be made to the makers or their New Zealand distributors. Quite a fair proportion of appliances will be found stamped, not in "watts," but in volts (v) and amps (a). In such cases, to ascertain the watts, it is only necessary to multiply the numerical values given for volts and amperes together, the product being "watts." Thus an electric iron labelled 200 v. 2.5 amps will in use consume electricity at the rate of $200 \times 2.5 = 500$ watts.

It is, of course, perfectly obvious that one appliance rated at 300 watts will consume electricity at double the rate of another marked 150 watts, and at only half the

consumed by any electrical appliance is ascertained by multiplying its watts by the time, in hours, during which it is used. Expressed as a formula that can easily be remembered, this is:

$$\begin{aligned} \text{Rate of electricity consumption} &\times \text{time in use} = \text{quantity.} \\ \text{Watts} \times \text{hours} &= \text{watt-hours.} \end{aligned}$$

ELECTRICITY is sold by the unit, as every consumer knows. But what is one unit? Simply the quantity of electricity indicated by 1,000 watt-hours. For convenience it is generally referred to as 1 kilowatt-hours (just as 1,000 metres is designated 1 kilometre). The essential thing to grasp is that when a consumer pays an average of, say, 1½d to 2½d per unit, or whatever amount is charged in his area of

(Continued on page 59)

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