

ripened on the 27th of June, having been aided in their growth by the electric light up to the beginning of May.

The expense of working this new invention is not great. The engine consumes 56 lbs of coal per hour, which, at \$5 a ton, would amount to 12 cts. per hour, or to 6 cts. per light of 5,000 candles. But, as the heating of the house by the waste steam has to be deducted from this, the real cost cannot exceed 4 cts. for the two lights! Where extra power can be used, all the personal attention necessary is the renewing of the carbon electrodes every 6 or 8 hours, which can easily be done by the man whose ordinary duty it would be

to look after the fire used in the ordinary plan of heating. At Dr. Siemens' place, the electric energy is utilized in the day time for threshing, sawing, pumping, &c., by means of wires extending to different parts of the farm, and attached to small dynamo machines placed at points where power is required. A naked strand of copper wire is supported on poles or trees, without insulators, and the return circuit is effected through the park railing or wire fencing of the place, which is connected with the transmitting and working machines by means of short pieces of connecting wires.

A. R. J. F.

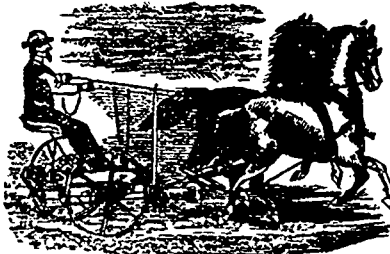
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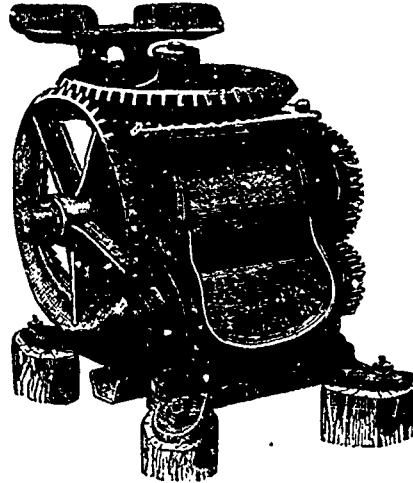
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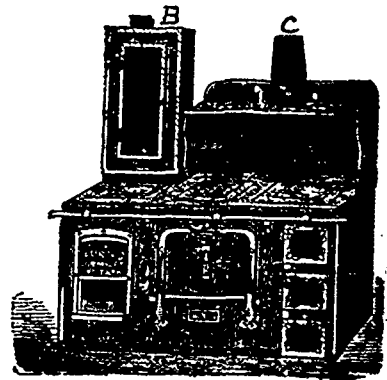
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