ASSE RE

FOR

ARTIZANS

quantities. ed at the period of ar begins to form, a rs commence to cut a. Our experiments fforded us important points. We find that reach a certain stage nutrient matter, and feed them too early.

other vegetable strucor aim in its growth, ed. It is engaged oring up large quan-to be used when the or the seed vessels ne subtle mysterious principles which are as this struggle is ke all animals, dies a ot necessary for the from simple exhaus-

t and feed corn stalks weeks which succeed words, they should er is fairly developed o form; and any corn o ear cannot form and thless as folder.

om these facts that for fodder, should be eriods during the seaarry, others somewhat s late as is safe. In lry month of July and the pastures falter, a ired, at a proper stage rgest amount of nutriof Chemistry.

THE CURCULIO. lowa, writing in the

er. says: "I will give nee with the lombard Some four or five her and put some keron one small limb; os saved on the tree all stung as usual and on (1870) I roll d up rated them with kerothe top-of the trees, and erfect—ripening up a n. This season I have with equal success. I th and wra wed around s some 18 or 20 inches en saturated the cloth

eated the application ays during the carculio put the cloth on the cuno had commenced consequently some few tell off; but I do not jured after the kero-trees are so loaded 2) that I have had to every limb. They are and look splendid.

have the success with If that has saved my as, it is worth a trial

no knowledge of the insects but I manage riety of fruit in a small Iowa elimate.

THE GARDNER JATENT

MANUFACTURED BY GARDNER SEWING MACHINE COMPANY Nos. 61, 63, 65, 67, 69, 71 and 73, James St., HAMILTON, ONT.

F. A. GARDNER, Mechanical Supt. F. M. WILLSON, Sec. Treas. Geo. Lee, Business

THE CARDNER PATENT SEWING MACHINE

READ THE FOLLOWING DESCRIPTION.

In design, the machine resembles the Family Singer; but the principle of the working parts is entirely different, having no gear, and being as nearly noiseless as it is possible to make a Sewing Machine.

The UPPER tension is on the face-plate. The discs between which the thread passes are attached by a stud to the tension spring, which is flat and placed on the inside of the face-plate, its upper end secured to the arm, and is regulated by a thumbscrew in the face-plate.

The Shuttle Movement is obtained from the shuttle-cam on the shaft, which is designated as a "ball cam," working between the prongs of a fork which is pinned to the shaft of the shuttle-arm. This shaft is also made of steel, and securely fastened to the shuttle arm, which in a basket at the end carries the shuttle along the face of the shuttle-race, describing a along the face of the shuttle-race, describing a radial movement which is conceded by all to be the best movement to prevent skipping stitches, the centrifugal force always keeping the shuttle firm to the face of the race.

The FEED derives its motion from the "feed The FEED derives its motion from the "feed cam" placed on the same shaft, the motion being transmitted through the eccentric rod and feed lever under the machine to the feed, which is made of steel, having a bearing its whole length, thereby preventing any twisting movement. To the end of the feed lever is attached a security which serves to give any provinced lift. ment. To the end of the feet any required lift to the feed that may be necessary for light or heavy goods. The feed spring is also attached to the bed; it is flat, made of steel, and very durable.

The DURABILITY OF THE MACHINE cannot be The DURABILITY OF THE MACHINE cannot be questioned; the movements being all hardened, are not likely to get out of repair. The whole of the works are enclosed in the arm, which is finely secured to the bed-plate, and set upon a walnut top or enclosed in half or full cabinet case, as may be ordered case, as may be ordered.

It will be observed that there is no gear of any kind, and that all the motions are derived from the same shaft,—all the usual complicated shuttle and feed movements being avoided.

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motion.
The WHEEL BEARING. The wheel runs upon The WHEEL BEARING. The wheel runs upon a tapered stud or bearing fastened to the side of the stand by a nut with the bearing end turned to a centre; the wheel is bored tapering to fit the stud; upon the front side of the wheel a steel plate is fastened by two screws, which bear against the centre of the stud; the plate is adjustable, and screws to draw the wheel upon the tapered stud, taking up the wear and yet running easy. yet running easy.

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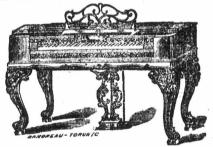
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