

Improved Self-Rocking Cradle.

Rocking the cradle to soothe the nerves of some perturbed infant is a task that every woman is desirous of avoiding, if possible, as it is a tedious and fatiguing piece of work.

In this engraving we have shown a new way of rocking the cradle, that is, by clock work. When the child is to be put to sleep, the mother winds the wheel work, A, at the end, just as a clock is wound. When this is done the wheels give motion to a vibrat-arm, B, which is driven by a small crank in the works aforesaid. This vibrating arm has two rods, C, at-

to the collar, B, so that the violent lashing to and fro which sometimes happens, is received on the elastic medium, and much reduced. The straps being connected to the spring by the sliding coupling, or collar, B, allow them to conform freely to all positions of the tongue, so that no cramping will take place. The straps passing over rollers in one of the snap hooks, C, also favors the proper disposition of the parts.

This arrangement is well adapted for all kinds of cultivators, mowers and reapers, as well as wheeled vehicles, inasmuch as it prevents the cultivators, etc., from jumping into the corn when driven close to

our own lines; it seems to present some advantages over the street boxes.—*Exchange.*

[What is the particular advantage in this? It is easy enough to drop letters in the street boxes now, but not so easy to get them delivered. If the Department would authorize men to deliver the letters promptly, it would be a great advantage to the business community.]

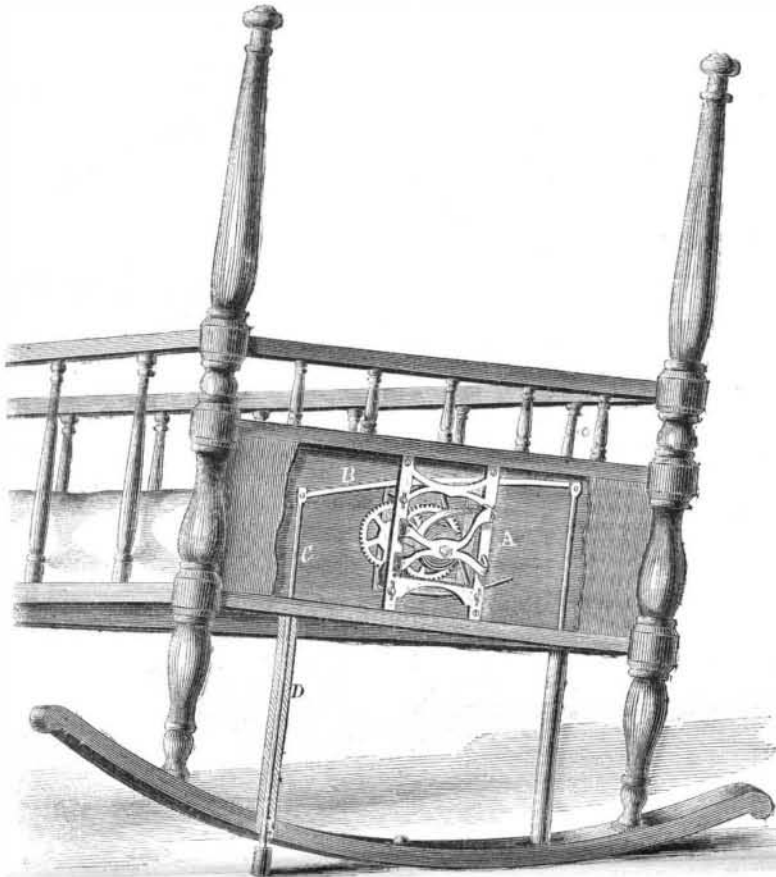
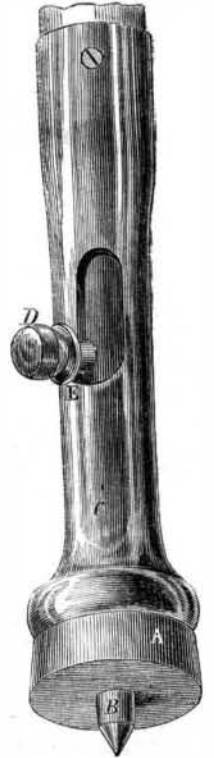
BUGBEE'S CRUTCH.

Common crutches are very insecure. In slippery weather it is next to impossible to use them safely without great care. They are also noisy on floors, and cause mortification to sensitive persons by heralding their approach in public assemblies.

The crutch here shown, or the principal part of it, is a great improvement on the ordinary ones. It is not only noiseless, but perfectly secure in all kinds of weather and all conditions of surface. In detail, it consists of an elastic cushion of rubber, A, affixed to the end of the crutch a shaft and a steel center, B.

This center is capable of sliding up in the socket, C, when not in use, or held extended by moving the pin, D, on one side, so that it falls into a slot, E. In this condition it is a complete security against accidental slipping.

It was patented through the Scientific American Patent Agency, on April 18th, 1865. Address J. G. Bugbee, Bangor, Me., for further information.



HELMKAMP'S SELF-ROCKING CRADLE.

tached to it, which work through tubular cases, D, against the floor, and thus impart the rocking motion. The wheel work will run a long time, and after starting requires no attention.

It was patented on Feb. 9th, 1864, by C. H. Helmkamp, of Reading, Ohio, to whom address for further information. Rights for sale.

Improved Shock Arrester.

Every observing person must have noticed how severely horses are struck by the pole of the wagon when traveling on uneven ground. In cities especial-

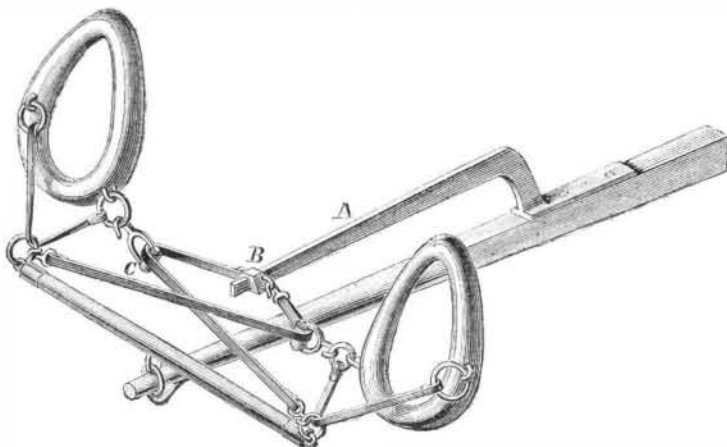
the hills, thus avoiding the waste which would occur from tearing it up.

Various parties who have tried it pronounce this arrangement to be very satisfactory. State, county or town rights will be sold by the inventor.

It was patented through the Scientific American Patent Agency Nov. 21, 1865, by F. D. Ladenberger. For further information, address him at Glenbeulah, Wis.

Letter Boxes on Horse Cars.

The Post Office Department has authorized the at-



LADENBERGER'S SHOCK ARRESTER.

y, draft horses attached to heavy loads labor along as much inconvenienced and worried by the jerking of the pole, as by the work they are doing.

In this engraving our readers will see a preventive for the evil alluded to. It consists in attaching a spring, A, to the pole and connecting it by two straps

tachment to each car of the Philadelphia Union Passenger Railway Company of an iron letter box, with a wide mouth, in the exterior panel of the car. Persons on the line of the road can thus drop letters into the box as the car moves along. Perhaps this plan might be introduced with good results on some of

ESSENCE OF COFFEE.—The Cincinnati *Gazette* announces that "pure essence of coffee" is now made in that city out of the "cheapest, dirtiest molasses." This molasses is boiled, cooled, and when hard, is broken and pulverized. Ground rye is then mixed with it, and a small box of the mixture, labelled "pure essence of coffee," is sold for eighty cents.



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