(No Model.)

W. E. McGENNIS.

EMERY WHEEL ATTACHMENT.

No. 523,367. Patented July 24, 1894.

Fig. 1.

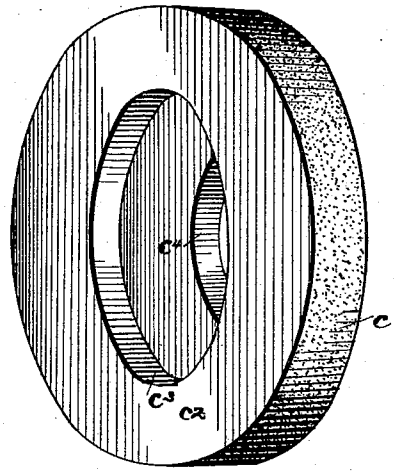


Fig. 2.

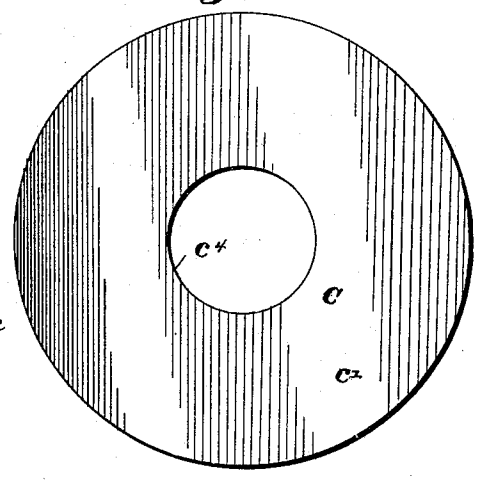


Fig. 3.

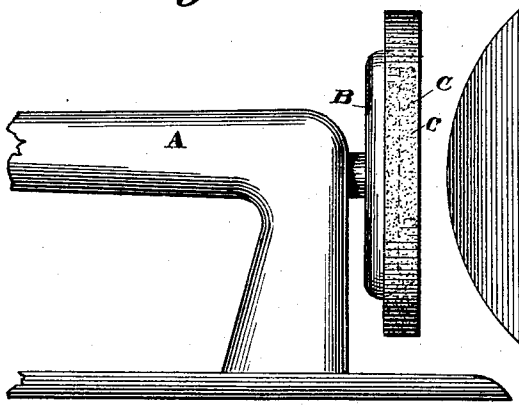
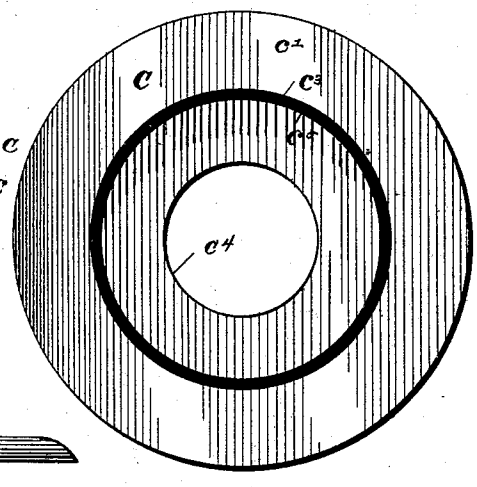


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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EMERY-WHEEL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 523,367, dated July 24, 1894.

Application filed February 6, 1891. Serial No. 380,416. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. McGENNIS, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented a new and useful Emery-Wheel Attachment, of which the following is a specification.

This invention is an improvement in attachments for sewing machines and the like which are used for the purpose of utilizing the motion of the fly-wheel for grinding table and household cutlery.

The object of the invention is to provide a simple, inexpensive, and durable grinding disk adapted to be attached directly to the fly-wheel of a sewing machine without the aid of clamps or the like, by the use of which grinding surface ladies may at a moment's notice sharpen their table cutlery, scissors, &c., thus saving the expense incident to sending cutlery to the grinder's, and economizing time.

With this object in view, the invention resides in the various novel details of construction, and in the combination of parts hereinafter fully described, and particularly pointed out in the claims.

In the drawings in which I have illustrated my invention and in which like letters of reference indicate corresponding parts, Figure 1 is a perspective view of one side of my device, detached from a machine the rubber gasket being removed. Fig. 2 is a side elevation of the same. Fig. 3 is a side elevation of a sewing machine showing the device applied, and Fig. 4 is a side elevation showing the complete attachment.

In the drawings A designates a sewing machine or the like which has the usual fly-wheel B.

C designates my emery-wheel which is constructed of an annular disk of wood or the like having upon its outer rim a coating composed of emery dust and glue, as shown in the figures by the letter *c*. The outer side of this annular disk is perfectly plain as shown at c', but the inner side c^2 is provided with a circular depression, which forms a circular shoulder c^3 therein. c^4 is an aperture in the center of the disk. This shoulder c^3 is provided with an internal rubber lining or gasket c^5, in the present instance, for a purpose hereinafter apparent.

Sewing machines are made of a size by each manufacturer, and the fly-wheels of any one number of any one make of sewing machines will be of the same size, and an emery-wheel provided with a circular shoulder c^3 of the same diameter as the fly-wheel of any particular number of any particular make of sewing machine, will fit all the sewing machines of said number and make. If desired, I may omit the rubber gasket c^5 and depend upon the resilience of the wood of which the disk is made, for frictional locking with the wheel, though the rubber gasket is more secure and will adapt one size of disk for use upon wheels that slightly vary in diameters.

My device is designed to be used by housekeepers, and is made especially for family comfort and convenience. Carving knives, scissors, and the like frequently lose their edges, and unless there are means of sharpening at hand, said articles are rendered practically useless.

If each household, in addition to being provided with a sewing machine, had one of my improved emery-wheels it would be a matter of only a few minutes to sharpen the carving knife or the scissors, and by the use of my device much time, labor, and expense, would be saved.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein-described grinding attachment for sewing machines, the same consisting of an annular disk, having a grinding periphery and provided with an annular opening the annular wall of which is elastic and adapted to frictionally lock over the fly-wheel of a sewing-machine, substantially as specified.

2. The herein-described grinding attachment for sewing-machines the same consisting of an annular disk the periphery of which is provided with a grinding coating composed of emery-dust and an adhesive mixture, the said disk being provided with an annular recess the annular wall of which is lined with rubber and is adapted to take over and lock by friction upon the fly-wheel of a sewing-machine, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM E. McGENNIS.

Witnesses:
JAMES McGENNIS,
PERCY HENRY.