

(No Model.)

F. H. GOOD.
CARPET CLEANER.

No. 348,460.

Patented Aug. 31, 1886.

Fig. 1.

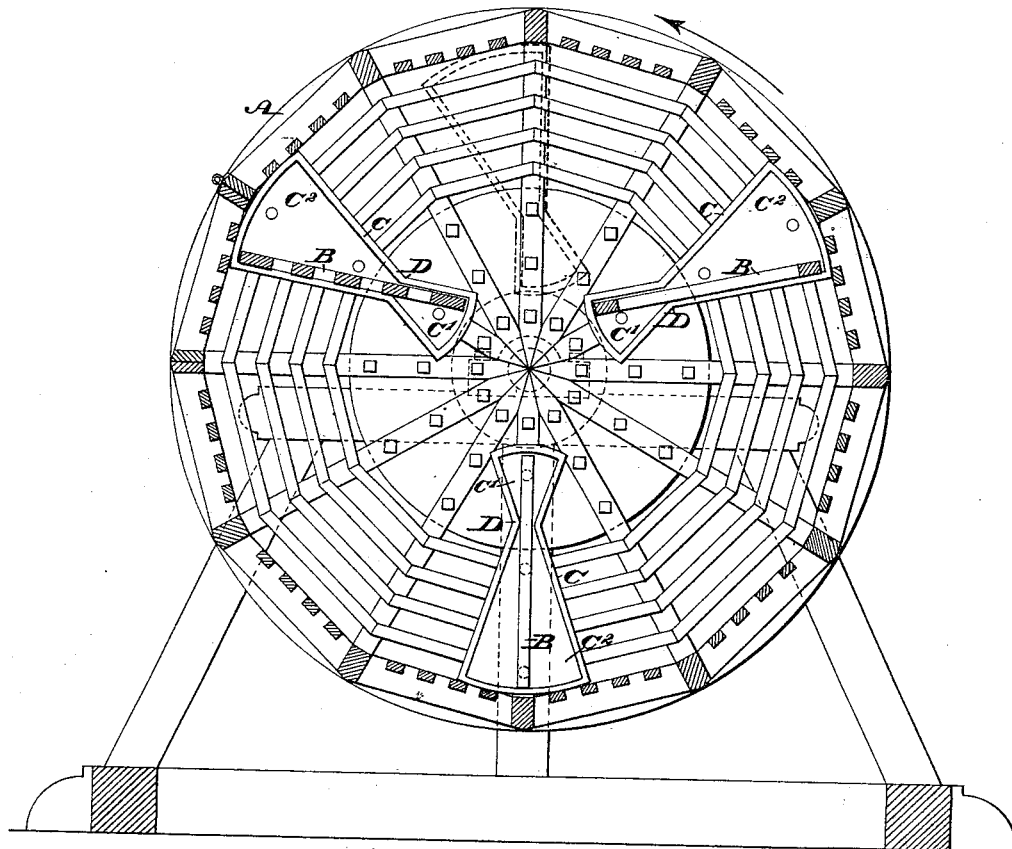
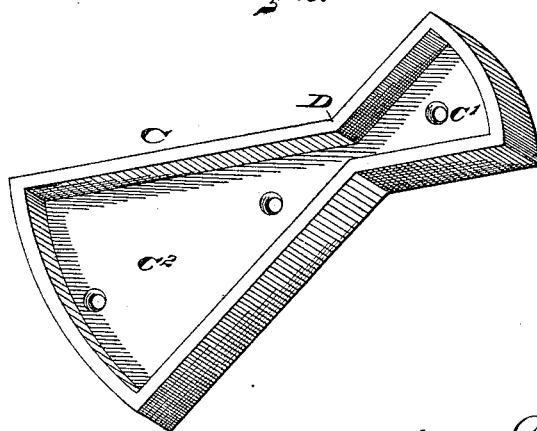


Fig. 2.



WITNESSES:

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CARPET-CLEANER.

SPECIFICATION forming part of Letters Patent No. 348,460, dated August 31, 1886.

Application filed November 5, 1885. Serial No. 181,898. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS H. GOOD, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Carpet-Cleaners, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a cross-section of a carpet-cleaner embodying my invention. Fig. 2 represents a perspective view of a detached portion thereof.

Similar letters of reference indicate corresponding parts in the two figures.

My invention relates to that class of carpet-cleaners in which the carpet is lifted or carried upward and then thrown forcibly forward and downward within a rotating drum.

The invention consists, essentially, of saddles for supporting the lifting devices and limiting the extent of the motion thereof, whereby there are obtained simplicity and strength of the cleaner and effective operation of the lifters without the latter being liable to clog.

Referring to the drawings, A designates a drum, both the side and heads of which are formed of slats or open-work to permit the escape of dust, dirt, &c., and which is mounted on a suitable frame by means of gudgeons or journals to receive a rotating motion. Within the drum are situated the lifters or elevators B, which are composed of suitable vanes or blades extending parallel with the axis of the drum, and the ends of which are freely fitted in saddles C on the ends of the drum, these saddles being arranged at the proper points to receive the ends of the lifters, and each constructed of a double sector-shaped box or inclosure, C' C', meeting at the narrow portion or end to form an inner neck, D, the side walls of which constitute a fulcrum on which the lifters may vibrate, as hereinafter more fully described. The sectors C' C' are unequal in length, and hence the neck or fulcrum D is eccentric to the lifters in respect to their width. It will be seen that when motion is imparted to the drum the lifters are brought successively in contact with the carpet within the drum and raise the carpet until they reach approximately the highest point, when the lifters turn or move from one side

of the saddles C to the other side thereof, the carpet being thrown forcibly forward and downward, owing to the rotary motion of the drum and the force of gravity, to the lower portion or bottom of the drum, causing it to be beaten against the periphery thereof, and thereby become freed of dust and dirt. The flanges of the ends of the saddles act as supports for the lifters and retain them in position transversely thereof, while the side flanges of the saddles act as stops to regulate the extent of the vibrating motion of the lifters, and, inasmuch as these purposes are thus effected without any fixed or rigid connection of the lifters, a simple and very strong or durable structure is obtained, while the lifters operate effectively and are not liable to clog in the saddles, due to the fact that the saddles are kept free of dirt by means of the lifters.

In the examples shown the saddles are formed separate from the drum and properly connected therewith; but, if desirable, the saddle may be formed directly on the drum.

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

1. In a carpet-cleaner, a rotary drum having saddles formed with side walls and a narrow neck, substantially as described, secured to the ends of the drum, in combination with lifters having their ends loosely fitted in said saddles and adapted to rock or vibrate on the walls thereof, substantially as and for the purpose set forth.

2. A saddle for the lifter of a carpet-cleaner, constructed of sector-shaped pieces connected at their narrow ends, substantially as described.

3. A saddle for the lifter of a carpet-cleaner, constructed of a double sector shape, with flanged ends and sides, substantially as described.

4. A rotary drum provided with saddles C, having necks D, and sector-shaped parts C' C', and the lifter B, the said saddles being secured to the ends of the drum, and the lifters having their ends loosely fitted in said saddles, substantially as and for the purpose set forth.

FRANCIS H. GOOD.

Witnesses:

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