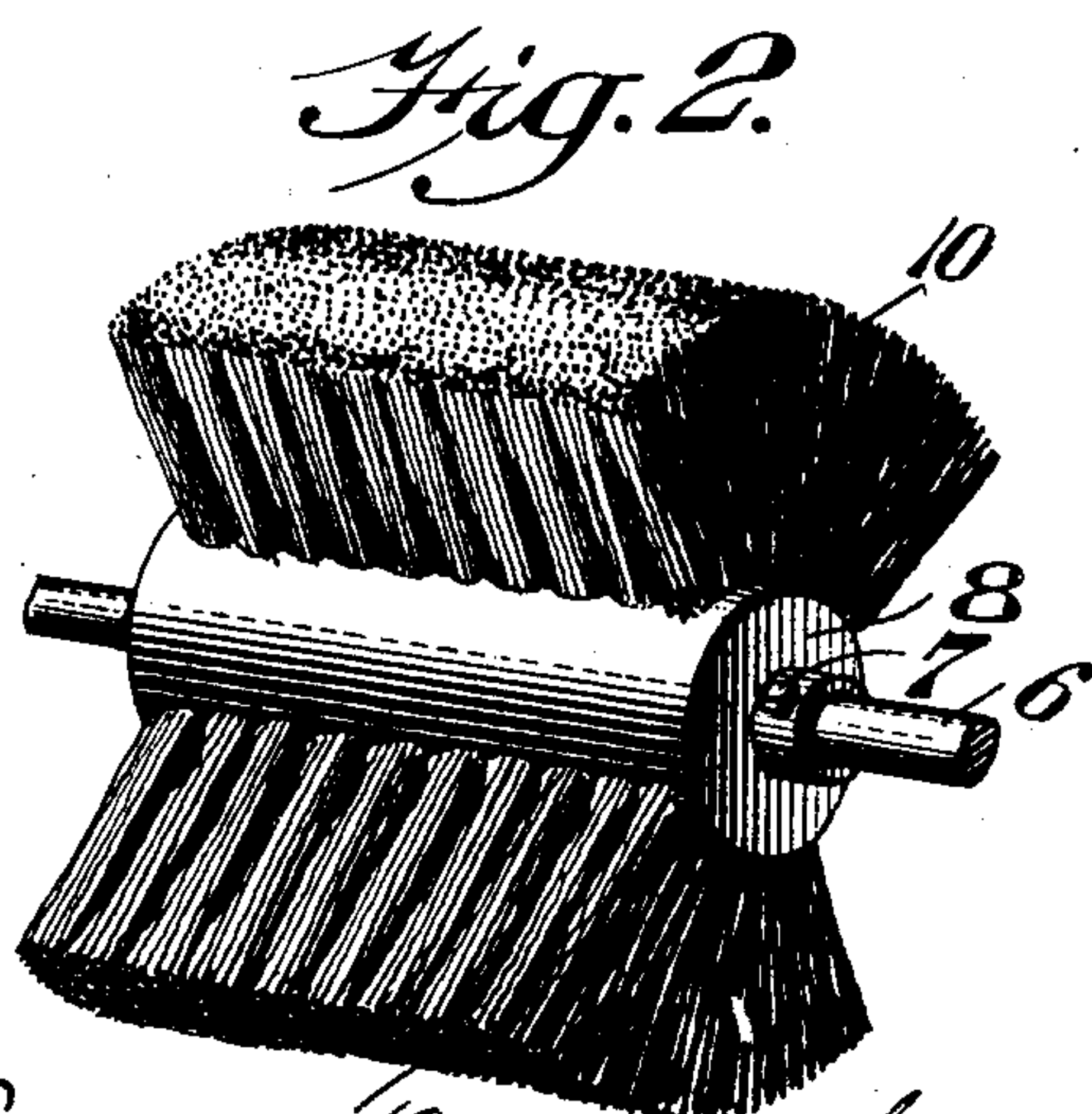
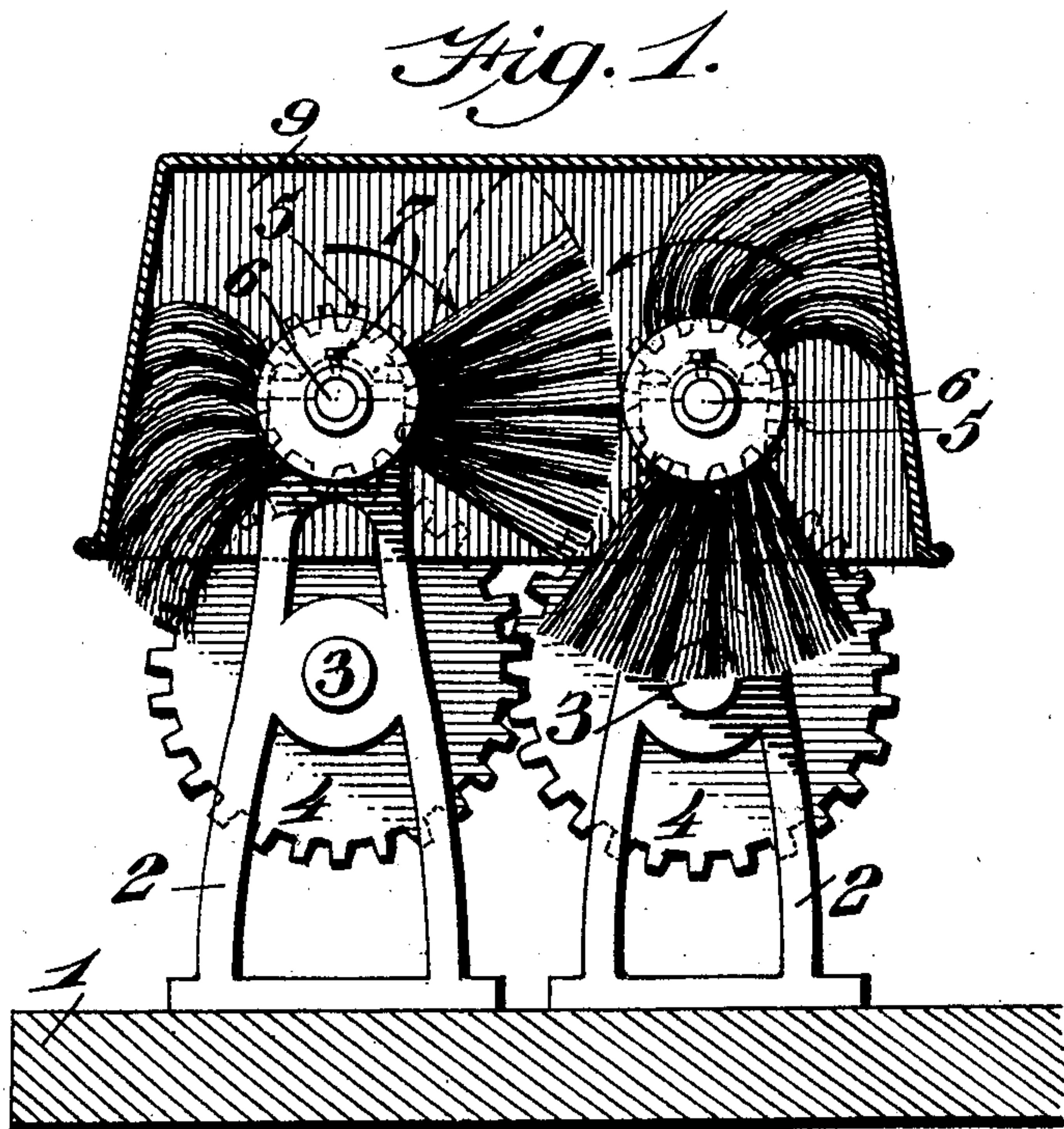


No. 896,723.

PATENTED AUG. 25, 1908.

H. GOTTSCHALK.
CLEANING DEVICE FOR PANS.
APPLICATION FILED MAR. 21, 1908.



Witnesses
P. F. Nagle.
H. J. Dietrich

Inventor
Hugo Gottschalk.
By Wiederstein & Schubert
Attorneys

UNITED STATES PATENT OFFICE.

HUGO GOTTSCHALK, OF BURNHAM, PENNSYLVANIA.

CLEANING DEVICE FOR PANS.

No. 896,723.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed March 21, 1908. Serial No. 422,471.

To all whom it may concern:

Be it known that I, HUGO GOTTSCHALK, a citizen of the United States, residing in Burnham, in the county of Mifflin, State of Pennsylvania, have invented a new and useful Cleaning Device for Pans, of which the following is a specification.

This invention relates to brush cleaners to be used in connection with bread pans and the like, which in use become incrustated with particles of the substance which they are adapted to contain. Such pans also, in view of the more or less sticky nature of the substances placed in them, very readily collect particles of dirt and other foreign substances floating in the atmosphere and it is very essential before the pans are again used for a baking or other operation, that they be thoroughly and efficiently cleansed.

My invention relates more particularly to the cleaning of large pans in which it is exceedingly difficult to reach every portion of the surface and consists of a plurality of rotating brushes so arranged and adjusted as to permit one brush to follow after another, whereby a portion of the surface of a pan is swept by both brushes, this portion referred to being that usually left untouched by the cleaning devices at present in use.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

Figure 1 represents a side elevation of a machine embodying my invention, a cooperating pan being shown in section. Fig. 2 represents a perspective view of one of the brushes.

For the purpose of illustrating my invention, I have shown in the accompanying drawings one form thereof, since this embodiment best illustrates the principles thereof and has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein set forth.

1 designates a suitable base supporting a plurality of side frames 2 adapted to form bearings for driving shafts 3, on which are mounted suitable gears 4 receiving power from any suitable source. These gears 4 are adapted to mesh with pinions 5 mounted on

spindles 6, suitably journaled in the side frames 2. These spindles have secured thereto, in any suitable manner for rotation therewith, as by the set screws 7, a plurality of brush members 8, for a purpose to be presently described. These brush members 8 consist of a plurality of brush segments 10 mounted upon a hub, whereby a space is provided between each segment, whereby the segment 10 of an adjacent brush is provided with a clearance so that the two brushes may be rotated, thereby giving an overlapping effect.

It will be understood, of course, that any number of brushes may be mounted upon the spindle 6, but preferably there are two or four upon either side of the pinion 5. In order to correctly balance and distribute the strain upon the bearings, it is well to have the pinion 5 mounted at the center of the spindle,

9 designates a pan of the shape usually employed in the making of bread or the like, the same being shown in its operative relation to the brushes 8, that is inverted, and held firmly pressed into engagement with the brush members.

It has been found in practice in cleaning this type of pans, that frequently it is desired to clean a pan designed for the baking of more than one loaf of bread or the like at a time, in which case by inverting the pan over a single brush, it is impossible to properly clean all the corners and points in the surface. If the same is inverted over a pair of brushes, such as used in my co-pending application, Serial Number 408,324, even when the pan is inverted over two brushes there still remains a portion of the surface in the center of the bottom of the pan, which is left untouched by the rotating brushes. Not only that, but this portion serves as a space for the collection of particles of dirt thrown off of the swiftly moving brushes.

Attention is particularly directed to the interfitting design of the brushes herein disclosed. The brushes 8 are segmental in character, thus leaving an open space between each segment of the brush and when placing the brushes in position upon the side frame they are carefully adjusted so that one brush will fit into the space formed between the segments of the other brush. It will now be apparent that upon rotating the brushes, each brush passes the center of the bottom of the

pan and by this lapping over, absolutely insures a thorough and complete cleaning of the pan.

It will be understood that these brushes
5 are equally well adapted for use in greasing the pans and when a small amount of grease is placed upon them they will distribute the same evenly and thoroughly over the inner surface of the pan, thus preparing the pan
10 for the baking material.

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

1. In a device of the character described, a
15 plurality of supports, spindles mounted on said supports, brushes on said spindles having interfitting segments, and means for rotating said brushes in opposite directions.

2. In a device of the character described, a
20 plurality of supports, a spindle journaled in each support, brushes detachably secured to

each spindle having interfitting segments, and means to rotate said brushes in opposite directions.

3. In a device of the character described, a
25 plurality of supports, a spindle journaled in each support, a plurality of brushes detachably secured to each spindle and having interfitting segments, and means to rotate said brushes in opposite directions. 30

4. In a device of the character described, a
plurality of supports, spindles journaled in said supports, a plurality of brushes mounted on each spindle having interfitting segments, pinions on said spindles, a driving shaft, and
35 gears on said driving shaft meshing with said spindles and adapted to rotate said brushes in opposite directions.

HUGO GOTTSCHALK.

Witnesses:

H. C. BURKETT,
H. S. ELDER.