

No. 692,601.

Patented Feb. 4, 1902.

A. W. BERGER.
HEAD FOR FODDER SHREDDERS.

(Application filed Sept. 14, 1901.)

(No Model.)

Fig. 1

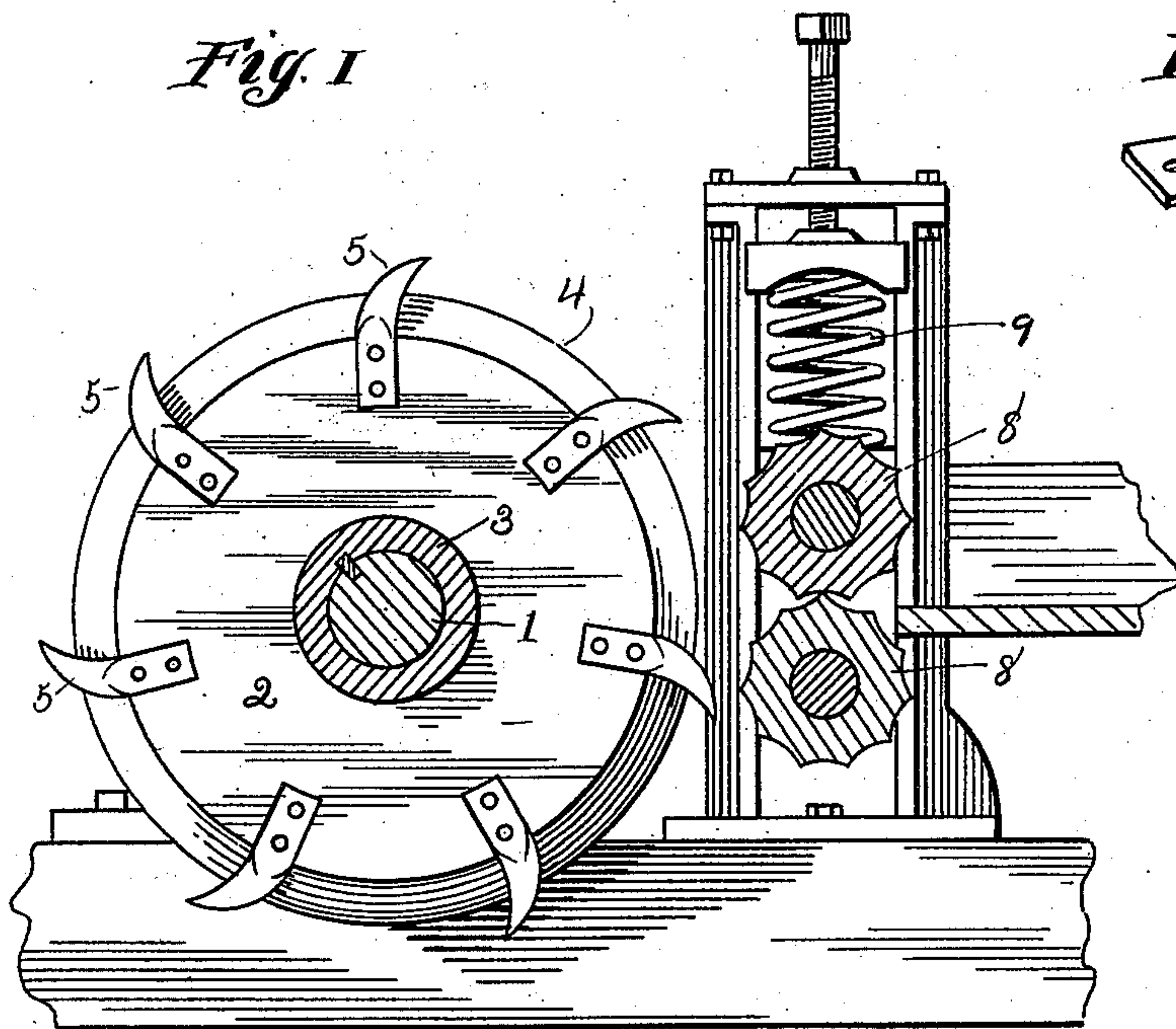
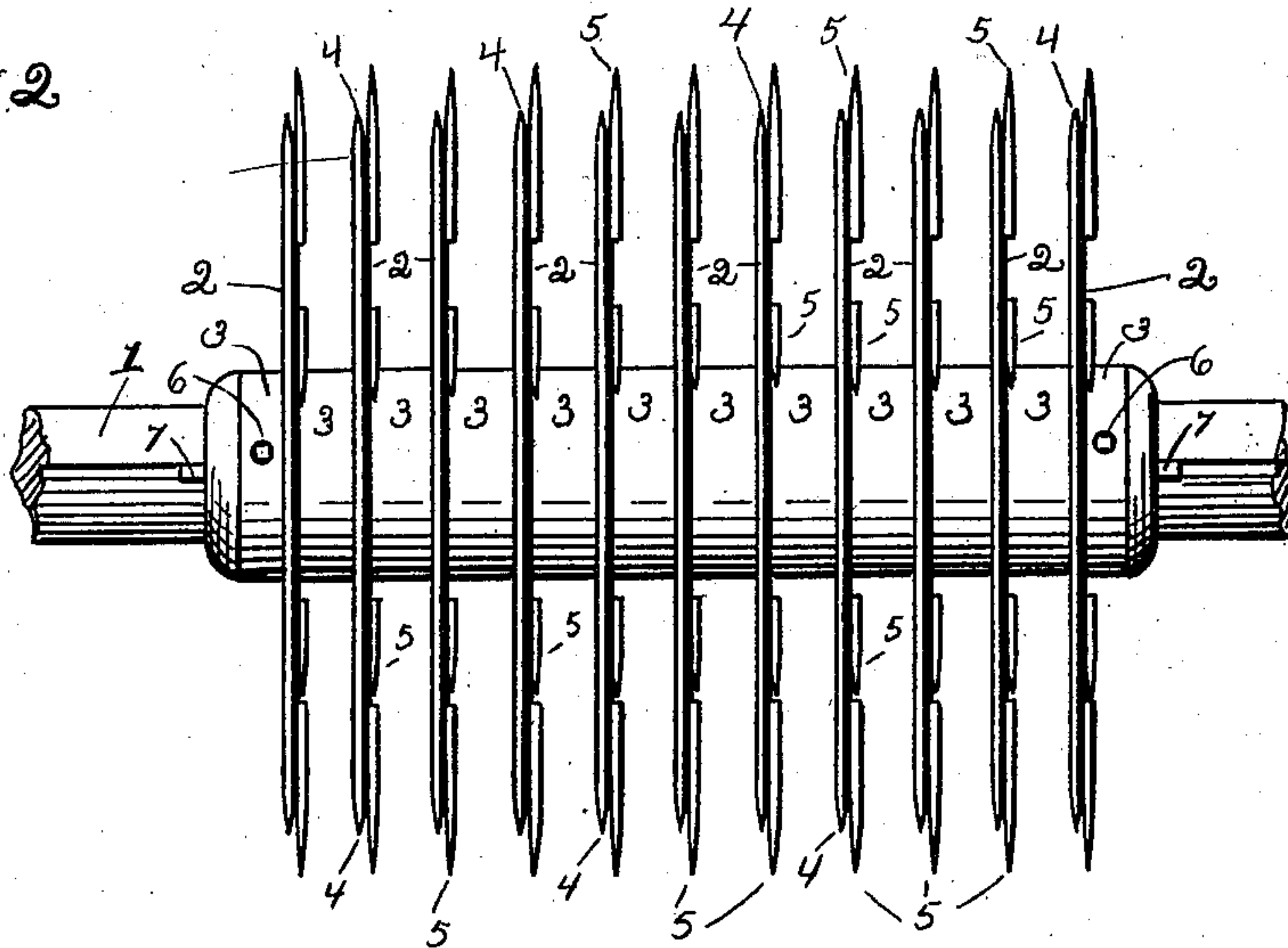


Fig. 3



Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT W. BERGER, OF CANTON, OHIO.

HEAD FOR FODDER-SHREDDERS.

SPECIFICATION forming part of Letters Patent No. 692,601, dated February 4, 1902.

Application filed September 14, 1901. Serial No. 75,368. (No model.)

To all whom it may concern:

Be it known that I, ALBERT W. BERGER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Heads for Fodder-Shredders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed specification and drawings, and to the figures of reference marked thereon, in which—

Figure 1 is a transverse section of the head, showing a transverse section of the feed-rollers. Fig. 2 is a view of the head, showing the parts properly connected. Fig. 3 is a detached view of one of the cutting-knives.

The present invention has relation to heads for fodder-shredders; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claim.

Similar numerals indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the head-shaft, which is held in proper bearings and is formed of a size and length to provide a proper support for the different cutting-disks 2, their spacing-collars 3, and a driving-wheel of any desired kind. The cutting-disks 2 are provided with continuous cutting peripheries 4, said cutting peripheries being sharp and are so formed for the purpose hereinafter described. To the sides of the cutting-disks 2 are securely connected the cutting-knives 5, which are extended a short distance beyond the peripheries of the disks 2. The cutting-knives 5 are substantially of the form shown, and, as shown, they are curved or hooked, so as to better act upon or cut the material.

In use the cutter-head is rotated at a high rate of speed, so that as the material passes the cutter-head it will be cut into fine strips, and by providing a series of cutting-disks having continuous cutting peripheries there is no time when the material will not be acted upon, or, in other words, I provide a continuous cutting action, and by providing the cutting-knives 5 and extending them beyond the peripheries of the cutting-disks I am enabled

to cut the material to some extent before it reaches the cutting-disks, by which arrangement the material is reduced to fine strips.

It will be understood that the end collars 3 should be provided with set-screws 6 or their equivalents, as some means must be provided to hold the disks 2 and all of the collars in proper relation to each other. For the purpose of causing the disks 2 to revolve with the shaft 1 the key 7 is provided, which is of the ordinary construction.

The feed-rollers 8 are of the ordinary construction and are operated in the usual manner, and for the purpose of providing for the upper roller to come and go with any unevenness of the material it should be provided with sliding boxes and the springs 9; but these parts form no part of the present invention, except that some kind of mechanism must be employed to feed the material to the cutter-head proper, and it will also be understood that a suitable frame must be constructed to support the feed-table and other parts common to a machine of this class.

By providing the cutting-disks 2 with the beveled peripheries, so as to give them continuous cutting edges, the points at which the cutting-knives are located will not be obstructed.

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

The combination of a shaft located in suitable bearings, a series of cutting-disks fixed to the shaft and provided with continuous cutting peripheries, cutting-knives located upon the sides of the cutting-disks and extended beyond the peripheries of the cutting-disks, fixed collars located upon the shaft and collars adapted to hold the disks in proper spaced position upon the shaft, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALBERT W. BERGER.

Witnesses:

J. B. SNYDER,
F. W. BOND.