

J. B. HEVERLING.
STAVE DRESSING MACHINE.

No. 314,176.

Patented Mar. 17, 1885.

Fig. 1.

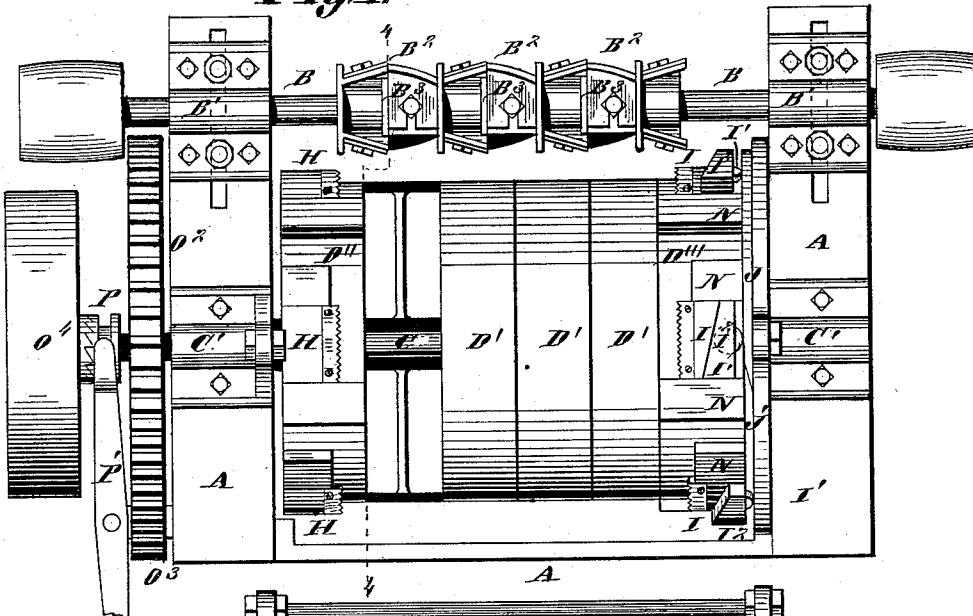
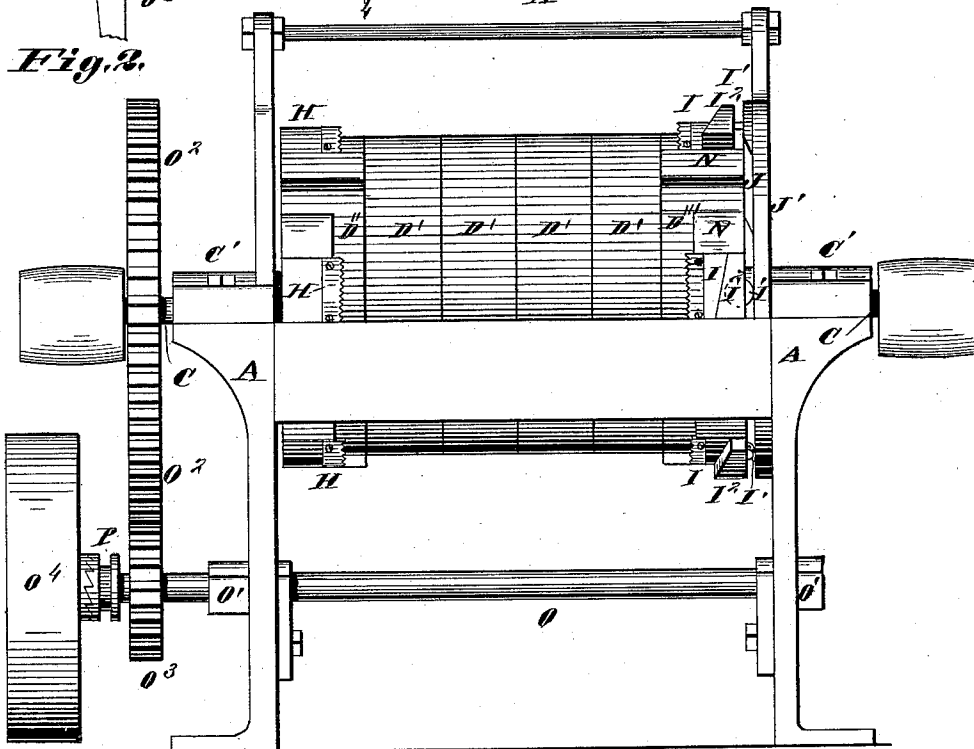


Fig. 2.



Attest:
Charles Pickles
Godwheelsch.

Inventor:
Jno. B. Heverling
By Knight Bros
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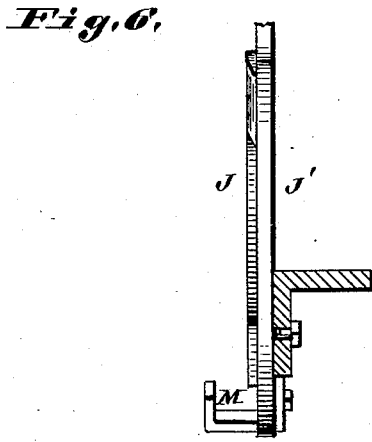
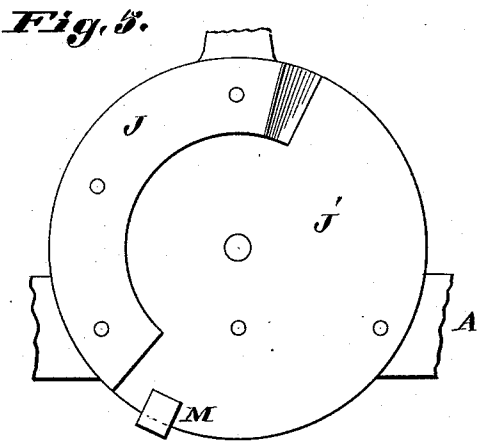
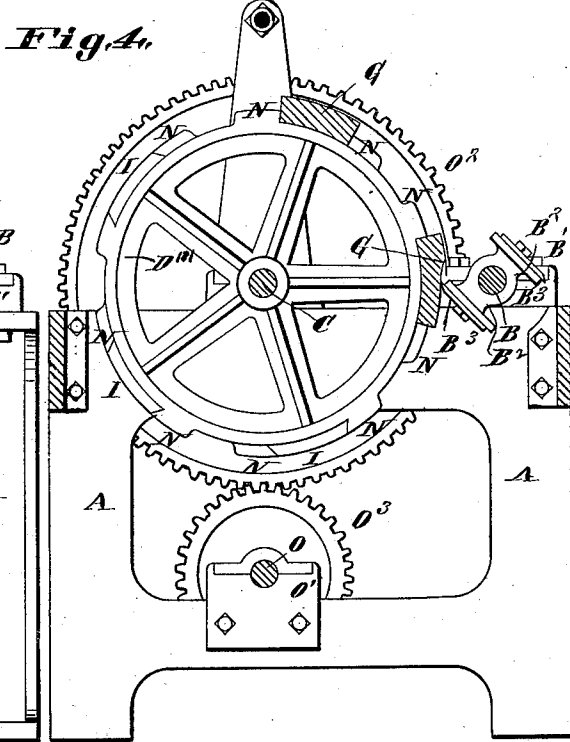
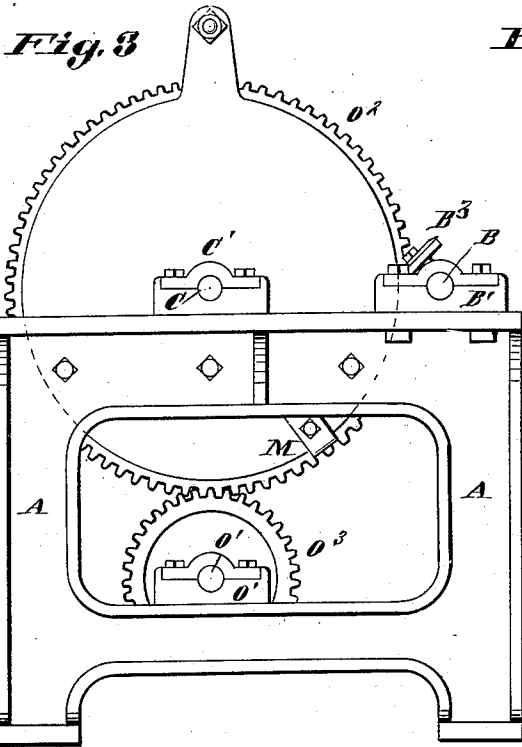
(No Model.)

2 Sheets—Sheet 2.

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Attest!
Charles Pickles
Geo. Wheelock

Inventor,
Geo. B. Heverling
By Knight Bros
Atty

UNITED STATES PATENT OFFICE.

JOHN B. HEVERLING, OF ST. LOUIS, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE CINCINNATI COOPERAGE COMPANY, OF CINCINNATI, OHIO.

STAVE-DRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 314,176, dated March 17, 1885.

Application filed June 25, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. HEVERLING, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Stave-Dressing Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a top view, part in section. Fig. 2 is a front elevation. Fig. 3 is an end view. Fig. 4 is a vertical transverse section taken on line 4 4, Fig. 1. Fig. 5 is a side view of the cams, and Fig. 6 is an edge view of same.

This invention relates to a machine for dressing the exterior surface of staves; and it is intended to be used in connection with another machine, for which application for patent is filed herewith, and which is designed for dressing the interior surface of the staves.

This invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, A represents the frame of the machine, supporting in suitable journal-boxes, B', a shaft, B, having secured to it heads B², provided with cutters B³. The frame also supports another shaft, C, journaled in boxes C'. Upon this shaft are a number of disks or pulleys, forming a drum, D, the inner pulleys, D', being removable and the outer pulley D'' being adjustable toward and from the other outer pulley D''', and upon this drum the staves are supported and carried to the cutters. The staves as they come from the other machine, above referred to, are concave or hollow upon their inner surfaces, so that they fit snugly upon this drum, as shown in Fig. 4. They are lettered G. They are held upon the drum by means of stationary dogs H and moving dogs I, the latter being forced toward the former to clamp the staves by means of a cam, J, secured to the frame A, and they preferably have friction-rollers I', fitting in sockets therein, and held from coming out, when not in contact with the cam, by a disk, J', upon the face of which the cam is formed or secured. After the staves have passed the cutters the dogs I are pulled back by means of a cam, M, secured to the disk J' at or near the terminus of the

cam J, being hooked and adapted to engage with inclined projections I² on the dogs. When the dogs are thus drawn back, the staves drop and the dogs are in positions to receive other staves. The dogs I are dovetailed into projections N, secured to or formed upon the drum.

It will thus be seen that the exterior surface of the staves will be dressed rounding or convex, as required.

By disconnecting the shaft C from the frame one or more of the inner disks of the drum may be removed for the purpose of shortening the drum, so that staves of different lengths can be dressed on the same machine. When one or more of the disks are removed or taken out, the disk having the stationary dogs is moved up tight against the others and held there by any suitable means.

Power is applied to the drum-shaft from a shaft, O, journaled in boxes O', secured to the frame A, with which it is connected by cog-wheel O² and pinion O³. The shaft O has a driving-pulley, O⁴, which may be loose and connected to the shaft by a sliding clutch, P, operated by a lever, P'.

I claim as my invention—

1. In a stave-dressing machine, a drum, D, for supporting the staves to be dressed, consisting of a shaft, C, inner removable pulleys, D', and outer pulleys, D'' and D''', the outer pulleys having projections on their peripheries to receive dogs for holding the staves on the drum, the outer pulley D'' being adjustable toward and from the other outer pulley D''', as set forth.

2. In a stave-dressing machine, the combination of a drum, D, on which the staves are supported, having projections on its periphery, stationary dogs H, fitting between the projections at one end of the drum, sliding dogs I, fitting between the projections on the other end of the drum, and having projections I and inclines I², and the disk J', having cam J on its face, and a hook, M, as shown and described.

JOHN B. HEVERLING.

In presence of—

GEO. H. KNIGHT,
BENJN. A. KNIGHT.