

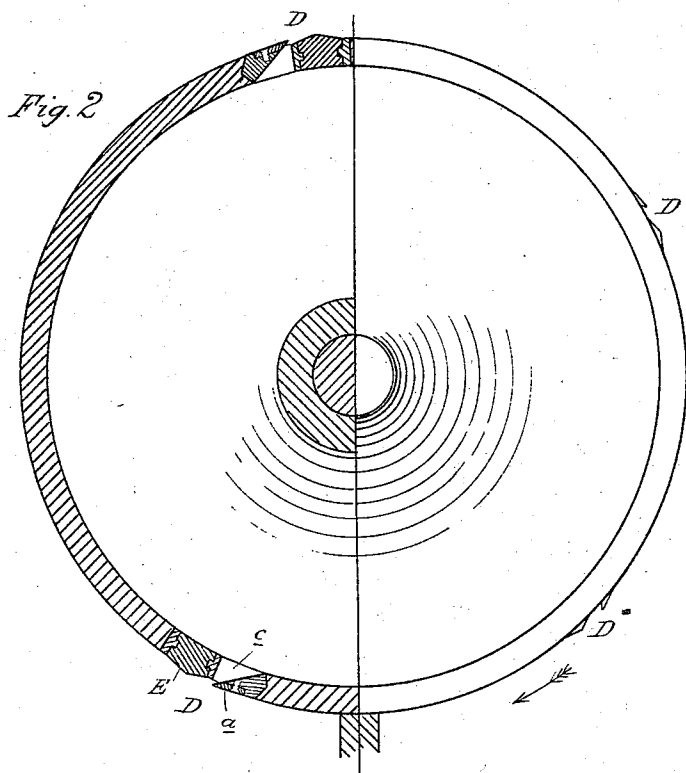
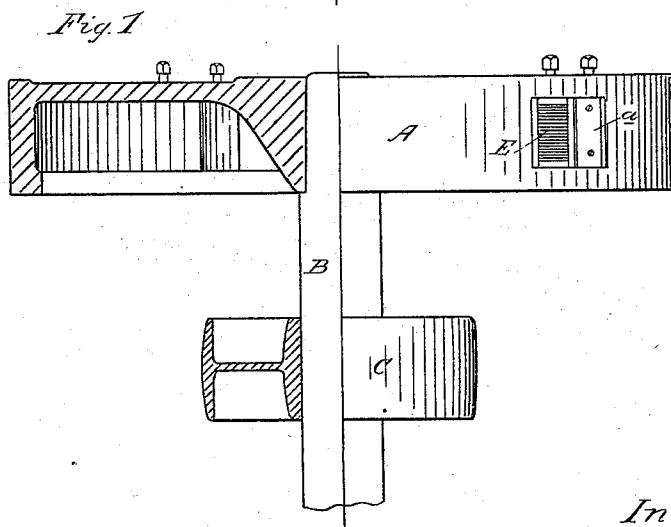
(No Model.)

C. A. LEE.

SPLINT CUTTING MACHINE.

No. 290,439.

Patented Dec. 18, 1883.



Attest
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UNITED STATES PATENT OFFICE.

CHARLES A. LEE, OF SAGINAW, MICHIGAN.

SPLINT-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 290,489, dated December 18, 1883.

Application filed October 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. LEE, of Saginaw, in the county of Saginaw and State of Michigan, have invented new and useful
5 Improvements in Splint-Cutting Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and useful improvements in machines for cutting splints, whereby a bolt or block is worked or cut into splints of uniform size and length.

The invention consists in the peculiar construction and operation of a rotary cutter-head which is provided with one or more
15 sets of knives, each set consisting of a knife the cutting-edge of which is placed transversely to the face of the cutter-head, and a series of other knives secured to the cutter-head in advance of the first-named knife, and
20 with their cutting-edges parallel to the plane of motion of the cutter-head, and in the combination of the parts, as more fully herein-after described.

Figure 1 is a plan view of the cutter-head partly in section, and showing one set of knives. Fig. 2 is a vertical central section of the device shown in Fig. 1.

30 In the accompanying drawings, which form a part of this specification, A represents a cylindrical cutter-head, of relatively large diameter, keyed upon the shaft B, which is properly journaled and provided with the driving-pulley C. The cutter-head A is cast
35 hollow, and open at one side, as shown, and in its face are secured one or more sets of knives, D. Each set of knives consists, first, of the knife *a*, which is secured in a mortise in the face of the cutter-head by means of
40 set-screws, or in any other suitable manner. This knife *a* is placed tangential, or nearly so, to the face of the cutter-head, and its cutting-edge may be set either square or at a bevel with the face of the cutter-head, and it projects about one-tenth of an inch therefrom. *c*
45 is a throat or passage into the hollow space of the cutter-head. *E* is a series of like knives secured in advance of the knife *a* in a mortise in the face of the cutter-head adapted to the
50 purpose. These knives *E* have bevel cutting-

edges, which project from the face of the cutter-head about the same distance as does the knife *a*, and they are placed parallel to each other, with a distance apart corresponding to
55 the thickness of the desired splint. The knives *E* have their cutting-edges parallel to the plane of motion of the cutter-head—that is to say, they cut at right angles to the cutting-edge of the knife *a*—and for convenience' sake
60 they may be all secured together in a block, which may then be secured in the mortise by means of set-screws or otherwise.

In practice this cutter-head is securely mounted upon a suitable frame-work, with
65 bench and guides upon which to place the blocks from which the splints are to be cut, and a suitable feed mechanism of any of the known constructions may be employed to feed the blocks under the cutter-head, in the rotation of which the knives may operate upon
70 the top face of said blocks, when it will readily be seen that the knives *E*, which travel in advance of the knives *a*, produce a series of parallel cuts into the top face of the block,
75 while the knife *a* following separates this portion of the block from the body thereof, thereby forming a number of individual splints, which will pass through the throat *c* into the interior of the cutter-head, whence they are
80 then discharged.

I do not intend to limit myself to any particular style of machine in which my cutter-head may be employed, as it will be found efficient in any machine provided with suitable
85 feed movements.

What I claim as my invention is—

In a splint-cutting machine, a revolving cutter-head provided upon its acting face with one or more sets of knives, each set consisting
90 of a series of parallel knives, which are arranged parallel with the line of motion, and adapted to produce a series of parallel cuts of uniform depth upon the presented face of the block, and of a knife immediately following
95 said parallel knives, constructed to shave off the partially-separated splints, substantially as and for the purposes described.

CHARLES A. LEE.

Witnesses:

E. SCULLY,
H. S. SPRAGUE.