

N^o 81,365.

A technical drawing of a curved structural member, possibly a beam or a pipe, shown in a perspective view. The member is curved upwards and to the right. It has two clamps or brackets attached to its outer surface. The upper clamp is labeled 'H' and the lower clamp is labeled 'J'. Both clamps have a circular hole on their left side. The drawing is a line drawing with no shading.

A technical drawing of a curved structural member, possibly a beam or a pipe, shown in a perspective view. The member is curved along its length. It features several rectangular cutouts or slots. The label 'M' is placed near the top left cutout, 'L' is near the top right cutout, and 'N' is near the bottom right cutout. The drawing is a line drawing with no shading.

John S. Hall
By his Atty,
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JOHN S. HALL, OF JEFFERSONVILLE, INDIANA.

Letters Patent No. 81,365, dated August 25, 1868.

IMPROVEMENT IN MACHINES FOR BENDING WOOD.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN S. HALL, of Jeffersonville, Clarke county, State of Indiana, have invented certain new and useful Improvements in Machines or Apparatus for Bending Cradle and Scythe-Snaths and other articles bent tortuously; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The nature of my invention and improvements consists in a flexible strap, of a peculiar construction, provided with sockets, and used in combination with a mould or former for bending cradle and scythe-snaths, and in providing the sockets in the straps with latches.

In the accompanying drawings—

Figure 1 is a plan of a strap with my improvements.

Figure 2 is an edge view of the strap applied to a stick ready for bending.

Figure 3 is a mould to bend the stick on.

Figure 4 shows the stick and strap on the mould bent in a proper form for a cradle or scythe-snath.

In these drawings, A A are the centre links of the strap, made of plate or sheet metal, and connected by the rivet B, with their extremities fastened to the sockets C and D, which sockets are made of thick sheet metal, in the form shown, or in such other form as will answer the purpose, and fastened to the links A A by rivets.

The space in the socket C is made large enough to receive the snath E, and provided with a latch, F, which swings on a rivet in the socket C, and catches under the head of the screw G in the opposite end of the socket, when the latch is swung over the snath to hold it in the socket.

The link H is fastened to the socket C, and connected to the link H¹ by the rivet H², forming a hinge between the links, to permit the strap to bend edgewise when desired; and the end of link H¹ is fastened to the hook I, which is made in the form shown, to receive the large end of the snath to be bent, and may be provided with a screw, to act against the end of the snath, if desired.

The socket D is made to receive the snath, and provided with a latch, J, which swings across the socket over the snath, to hold it in, and latches under the screw J' in the socket, to hold the snath in while it is being bent. The socket D has the link K fastened to it, which is connected to the link K¹ by the rivet K², so that the strap may bend edgewise as well as flatwise. The link K¹ has the hook L fastened to it, to receive the small end of the snath, and hold it while it is being bent.

This hook may also be provided with a screw, to act against the end of the wood, if preferred that way.

The mould or form P, fig. 3, may be made of wrought or cast iron, in the form shown, with two flanges at the large end, a flange, M, on one side in the centre, and a flange, N, near the small end.

The snath-sticks are turned the form and size required, and steamed, and the straps applied to them, when they are bent to the mould by means of a rope, crank, and levers, and a clamp, applied to the small end to hold it to the mould until it is cooled and dried or set, when it may be released, and another put in its place.

Instead of sockets with latches, rings may be used by pushing the snaths in endways, and removing them in the same way.

Having described my improvements in apparatus for bending cradle and scythe-snaths, I claim—

The flexible strap, provided with sockets C and D, in combination with the mould or former P, constructed and arranged to operate as set forth.

JOHN S. HALL.

Witnesses:

J. H. McCAMPBELL,

J. C. CALHOUN.