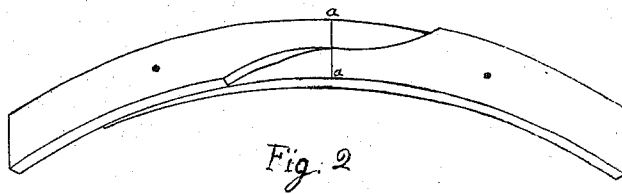
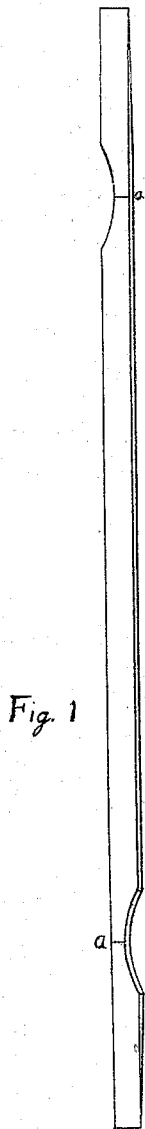


H. WILLARD.
Barrel Hoops.

No. 140,862.

Patented July 15, 1873.



Witnesses
Oscar H. Simonds
Edward Jaggart

Inventor
Henderson Willard

UNITED STATES PATENT OFFICE.

HENDERSON WILLARD, OF GRAND RAPIDS, MICHIGAN.

IMPROVEMENT IN BARREL-HOOPS.

Specification forming part of Letters Patent No. **140,862**, dated July 15, 1873; application filed April 14, 1873.

To all whom it may concern:

Be it known that I, HENDERSON WILLARD, of Grand Rapids, Michigan, have invented a new and Improved Barrel-Hoop, of which the following is a full and sufficient specification, reference being had to the accompanying drawings and letters of reference marked thereon.

Like letters in the two figures mean the same thing.

This invention relates to a new and improved mode of locking the ends of a hoop for barrel or other circular package; and consists in a plain scallop-lock in place of the common beveled cooper's lock.

One advantage of this device is the greater facility with which the scallops can be cut than other locks.

I scallop my hoop as seen in Figure 1, then bend, interlock, and nail it, with gage-marks *a a* in line, as indicated in Fig. 2.

The gage-marks *a a* may be dispensed with.

In manufacturing hoops from plank it is practicable to scallop the plank, then cut it into hoops. In this way several hoops are scalloped at once by a simple operation of machinery.

I claim—

As an article of manufacture, a hoop with scallop-lock, substantially as shown and described.

HENDERSON WILLARD.

Witnesses:

EDWARD TAGGART,
NERAM A. FLETCHER.