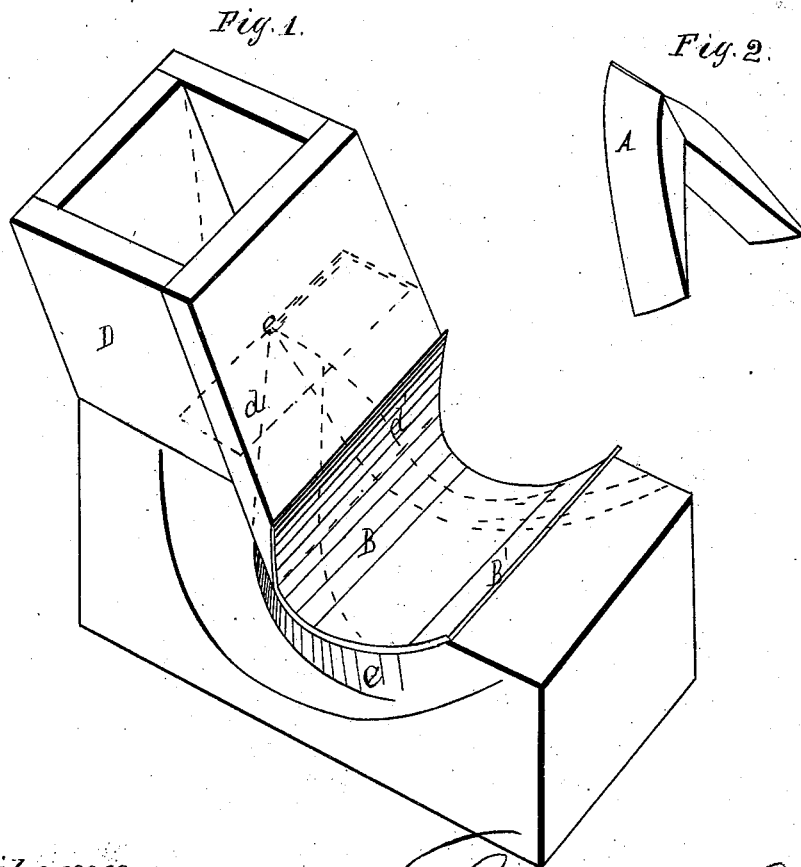


L. M. Larsh,
Water Wheel Gate,
N^o 52,578, Patented Feb. 13, 1866.



witnesses
Loed Stone
J. W. Mangy

Inventor
Leroy M. Larsh
by atty W. T. Dennis

UNITED STATES PATENT OFFICE.

LEROY M. LARSH, OF RICHMOND, INDIANA.

IMPROVEMENT IN WATER-WHEELS.

Specification forming part of Letters Patent No. 52,578, dated February 13, 1866.

To all whom it may concern:

Be it known that I, LEROY M. LARSH, of Richmond, Indiana, have invented certain new and useful Improvements in Trunks and Scrolls for Water-Wheels; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the drawings which accompany this specification, forming a part of the same, and to the letters of reference marked thereon.

Figure 1 is a perspective view of the trunk and scroll. Fig. 2 is a scroll-saddle.

To enable those skilled in the art to make and use my invention, I will proceed to describe the same.

In Fig. 1 D represents a trunk constructed in the common form as adapted to horizontal water-wheels, provided with a division-point extending downward and forming the scroll, as shown by the dotted lines *d d'*.

B B' represent two or more metallic plates, forming the inner circle of the scroll, and attached to the frame of the scroll in any suitable manner.

The advantage derived from the use of the metallic plates is in the fact that, being much thinner than wood, they can be made of suffi-

cient strength to be durable, and thus the water is delivered nearer to the shaft of the wheel, and at the same time farther past the center of the shaft.

A, Fig. 2, represents a saddle constructed to fit the dividing-point of the scroll C, and may be made of any requisite size to govern the amount of water delivered on the wheel, and at the same time securing the same perpendicular height of the column of water on the trunk with a smaller supply of water, and can be readily attached or detached as occasion requires.

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

1. The termination of the scroll C in a saddle-shaped apex, effecting a division of the current, as desired.

2. The combination of the saddle A and plates B B' with the trunk D and scroll C, operating as set forth.

L. M. LARSH.

Witnesses:

WM. F. DENNIS,
M. E. McMEANS.