

J. MORRIS.

Hooping Carriage-Wheels.

No. 3,276.

Patented Sept 23, 1843.

Fig: 1.

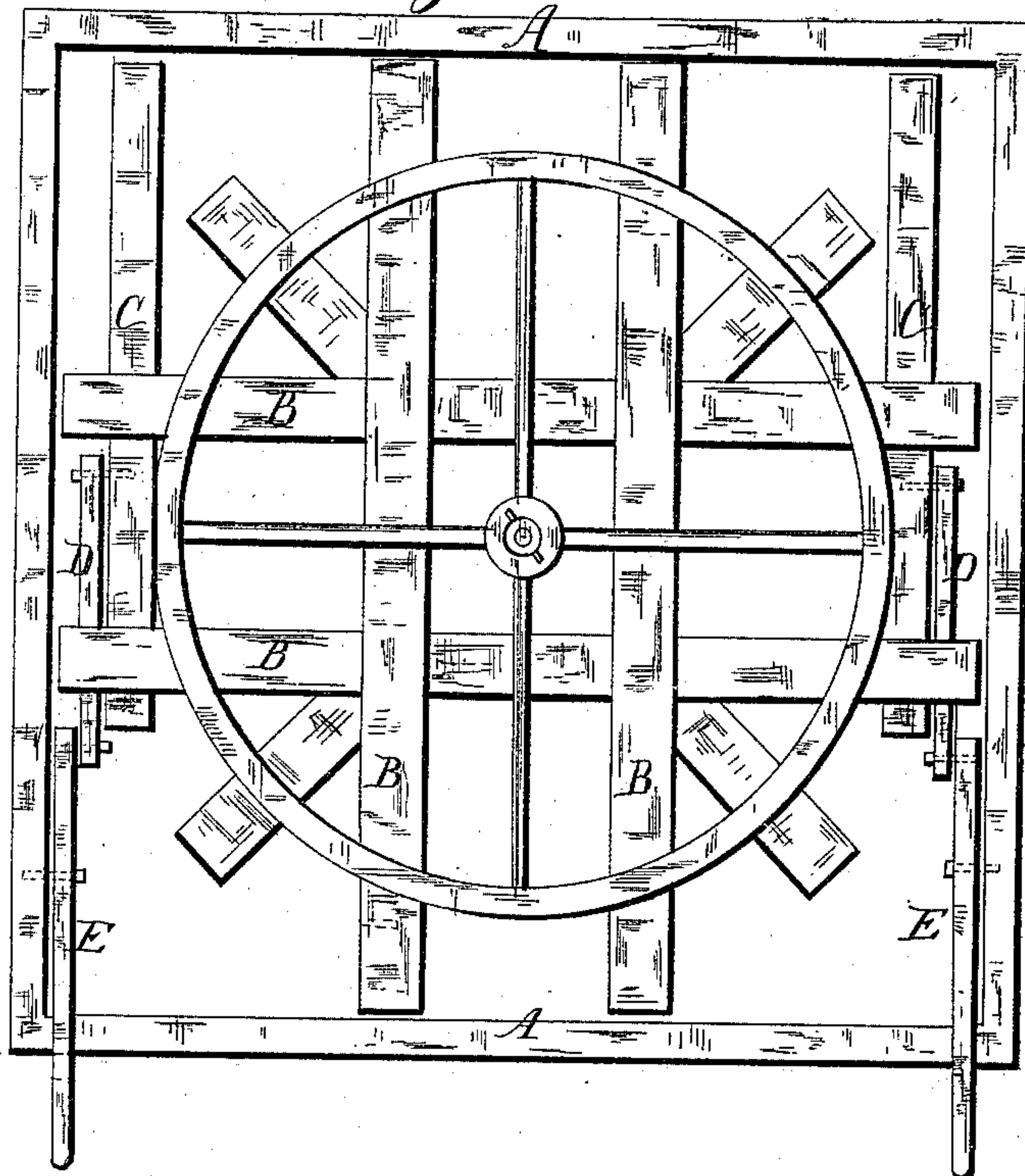
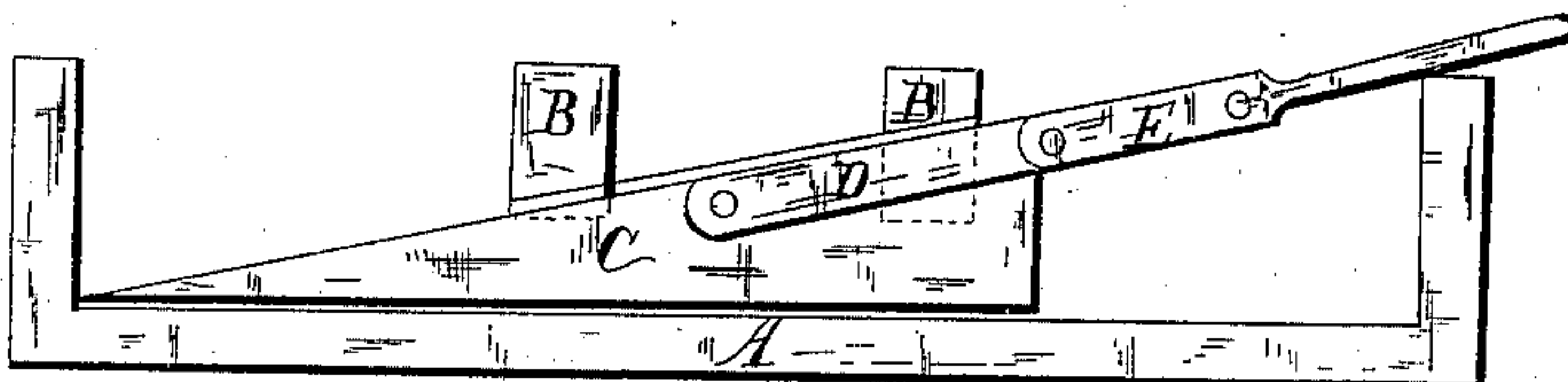


Fig: 2.



UNITED STATES PATENT OFFICE.

JAMES MORRIS, OF BLOOMFIELD, NEW JERSEY.

MACHINE FOR IMMERSING CARRIAGE-WHEELS IN WATER AFTER PUTTING ON THE HOOP OR TIRE.

Specification of Letters Patent No. 3,276, dated September 23, 1843.

To all whom it may concern:

Be it known that I, JAMES MORRIS, of Bloomfield, in the county of Essex and State of New Jersey, have invented a new and useful Machine to be Used in Hooping Carriage or Wagon Wheels, and all other Wheels Requiring Hooping, of which the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, Figure 1 being a bird's-eye view and Fig. 2 an elevation, with the piece of the box removed, in order to show the parts used in raising and lowering the frame on which the wheel is placed, the same parts in both figures being similarly lettered.

A is a square box made water tight, and of such size and depths as to suit the wheels to be hooped; for common wagon wheels, it may be about five feet and a half square and thirteen inches deep.

B is a strong frame on which the wheel to be hooped is placed, where it is confined by the nut on the top of a spindle which passes up through the hub. The frame is of such size as just to move freely up and down in the box, and rests on two movable inclined planes or wedge shaped pieces C, C. These planes are connected by the pieces D, D, with the levers E, E; and the levers being attached to the sides of the box by a bolt through each, on which it turns as a fulcrum, the planes are easily moved backward and forward, and consequently the frame, with the wheel, raised or depressed.

When the machine is to be used the box

is filled with water, and the levers put in the position as represented in the drawings; when the top of the frame will be just above the surface of the water in the box. The wheel is then put on the frame, and the hoop, after being heated, is put on the wheel. The position of the levers is then reversed, and the planes being thereby drawn back, the frame descends and immerses the wheel in the water, and the hoop is instantly cooled.

The frame may be raised and depressed by screws, or racks and pinions, or by cams on a shaft or shafts placed under it, and worked by a lever; but I think the mode described above preferable to any other that has occurred to me for the purpose.

The advantages in the use of this invention are a great saving of time in performing the work; and the hoop being instantly cooled in its whole circumference, as soon as it is put on, the wheel is not injured by burning.

What I claim as my invention and desire to secure by Letters Patent, is—

Placing the frame with the wheel thereon, in a box, or vessel filled with water, and lowering it so as to immerse wheel in the water, as herein described; using for that purpose any of the above described methods, or any other mechanical contrivance which will produce the desired effect.

JAMES MORRIS.

Witnesses:

WILLIAM D. FORCES,
STEPHEN DON.