

UNITED STATES PATENT OFFICE.

NATHANIEL T. EDSON, OF NEW ORLEANS, LOUISIANA.

WHEELWRIGHT'S MACHINE.

Specification of Letters Patent No. 19,243, dated February 2, 1858.

To all whom it may concern:

Be it known that I, NATHANIEL T. EDSON, of the city of New Orleans, and parish of Orleans, State of Louisiana, have invented a new and useful improvement; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings and letters of reference marked thereon.

Figure 1 shows a center sectional view of my hub and box complete, with a part of the spokes placed therein. C is a flange placed on the box part, and which together with a solid flange on the front or outer end of the box, forms a hub or receptacle for the spokes. F represents a nut which is intended to hold the flange C against the spokes after it has received the pressure from the screw as shown in Fig. 4. B represents the nut which connects the axle and box. A and A are lips formed on the movable flange, intended to be pressed into the spokes, and D a similar one on the solid flange, which may be pressed into the spokes, or the spokes may be cut to receive it, as preferred.

Fig. 2 represents a press frame with a screw B and a form Fig. 3 placed on the frame, the center of the form is provided with a shallow orifice, the size of the end of the box, into which it enters. The outer rim of the form is divided into as many sections as the wheel is intended to contain spokes; there being formed a V-shaped notch to receive each spoke, the rim being true with the center; the spokes are held, both to give a proper dish to the wheel and an equal distance apart, there are also formed four other divisions D near the junction of the spokes and hub, the spokes are intended to rest only against the sides of these divisions, which thereby confine them in a straight position with each other across the hub. The V-

shaped notches F may be dispensed with as without them the rim will give a proper dish to the spokes, and the spokes which rest in the notches E and D will guide the others to a proper position in the wheel.

Having described my press, I will proceed to explain my manner of using it in the construction of wheels. The spokes being of a proper thickness (which will depend upon the number to be used and the circumference of the hub) to fill the space allowed for them. The box being placed on the form Fig. 3 with its point or outer end downward and resting on the orifice C, I place four spokes in the divisions D with their outer ends in the divisions E, having thus a correct guide for all the spokes; I proceed to supply the divisions F with them. I then place the flange C, Fig. 1 on them and the curved iron F, Fig. 2 upon it. I then force the screw B down so the lips A and D partly enter the spokes. I then drive the spokes until they press hard against each other, they being made sufficiently large to do so before striking the box with their ends. I then force again upon the screw until the lips A and D are forced into the spokes, and the flanges are made to press sufficiently hard against them, and finally, I screw the nut F hard down upon the flange, when the screw B, is disengaged.

Having thus described the construction and use of my invention; what I claim as new therein and desire to secure by Letters Patent, is—

The form Fig. 3 or its equivalent in combination with the press, substantially as represented and described.

NATHANIEL T. EDSON.

Witnesses:

JOEL D. FRENCH,
MATHYS C. VANDERWAL.