

R. JOHNSON.

Improvement in Propeller Wheels.

No. 125,458.

Patented April 9, 1872.

FIG. 1

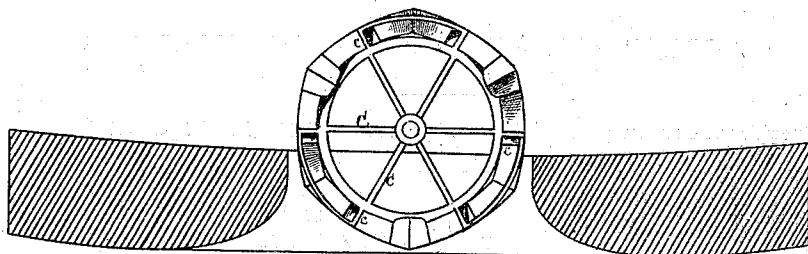


FIG. 2

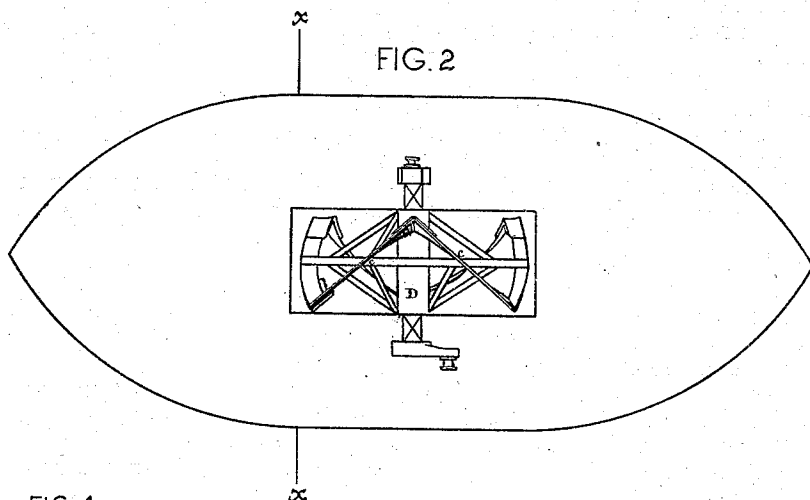


FIG. 4

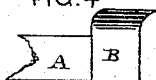


FIG. 5

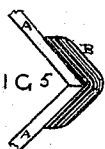
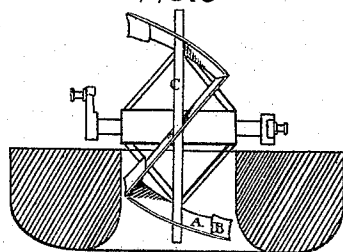


FIG. 3



WITNESSES

George Pardy
Paul Spitz

INVENTOR

Rasmus Johnson

UNITED STATES PATENT OFFICE.

RASMAS JOHNSON, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN PROPELLER-WHEELS.

Specification forming part of Letters Patent No. 125,458, dated April 9, 1872.

SPECIFICATION.

I, RASMAS JOHNSON, of the city and county of San Francisco, State of California, have invented a new Improvement in Propeller-Wheels for Steamboats, of which the following is a specification:

My invention has for its object to join and strengthen the paddles of what is known as the serpentine propeller-wheel, and at the same time make such strengthening device serve the purpose of taking a tenacious hold upon the water, and thereby secure for the wheel more power; and to these ends my invention consists in joining the adjacent ends of the "zigzag" paddles or buckets with corner pieces of such shape as to strengthen the joint and extend downward and curl over and outward, so as to take hold of the water, as will be hereinafter more fully set forth.

To enable those skilled to fully understand the same, I will describe my improvement, referring to the accompanying drawing forming part of this specification, and in which—

Figure 1 is a side view of a wheel embracing my improvement as attached to a boat. Fig. 2 is a plan view of the same. Fig. 3 is a transverse section at *xx* of Fig. 2; and Figs. 4 and 5 are detail views, showing the corner pieces attached to the paddles or buckets.

Similar letters indicate like parts in the several views.

A represents the zigzag paddles, arranged around the shaft D, and secured thereto by spokes *c* and a spider, C, in the usual manner. The joints or adjacent ends of the paddles A are secured and strengthened by angular corner pieces B lying flush with the outside edge of the paddles, and extending a suitable distance down below the inner edge, and curling over and outward, as clearly shown in the drawing.

It will be observed that the angular corner pieces firmly embrace and unite the adjacent ends of the paddles, and their peculiar shape and construction is of such a nature as to take a firm hold upon the water, and thus increase the propelling power of the wheel.

Claim.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The corner pieces B, extending within the inner edges of the paddles, and curling over and outward, substantially in the manner and for the purposes set forth.

RASMAS JOHNSON.

Witnesses:

GEORGE PARDY,
PAUL SPITZE.