

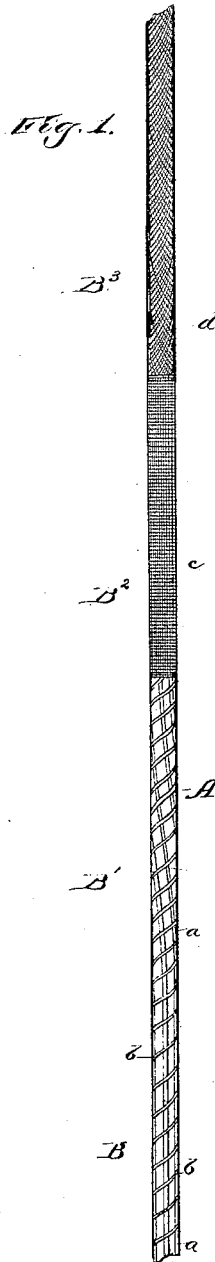
(No Model.)

M. M. COPP.

WHIP.

No. 262,374.

Patented Aug. 8, 1882.



Witnesses:  
*A. C. McArthur*  
*W. R. Keyworth*

Fig. 2.



Inventor

*Monroe M. Copp*

# UNITED STATES PATENT OFFICE.

MONROE M. COPP, OF ROCHESTER, NEW YORK.

## WHIP.

SPECIFICATION forming part of Letters Patent No. 262,374, dated August 8, 1882.

Application filed February 17, 1882. (No model.)

### *To all whom it may concern:*

Be it known that I, MONROE M. COPP, a citizen of the United States, and residing at Rochester, in the State of New York, have invented a new and useful Improvement in Whips, of which the following is a specification.

My invention relates to improvements in whips, and is fully illustrated by the accompanying drawings, of which—

Figure 1 is a plan view, divided into sections at B B' B<sup>2</sup> B<sup>3</sup>, which relates to the construction of the same. A shows a rod, of rattan, (or it may be of any suitable material,) made round or square, as the case may be, of any desired length. On the outer surface are shown a number of wires running lengthwise of the rod, as seen at *a a*, section B, either embedded into the same by pressure or lying in grooves made for that purpose. On the outside of the strength-wires I sometimes wind another wire to hold them in position. The structure thus formed is then wrapped with paper or cloth, as seen at *c*, section B<sup>2</sup>, or plaited. This rod so constructed will form the core of a whip, and may be built upon by adding other pieces, as

in ordinary whip-making; or the wire may be run on the outside of a whip after it is formed, and either embedded into the same by pressure or be run in grooves made for the purpose, then wrapped around with paper or cloth, and finished as in ordinary whips.

Fig. 2 is an end view, and shows the grooves or wires in position.

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

1. A whip or whip-core composed of rattan or analogous material, having embedded in the outer surface thereof elastic strengthening-wires, and provided with a suitable covering, substantially in the manner and for the purpose set forth.

2. A whip or whip-core with wires running along its outer surface, either embedded into or laid in grooves made for that purpose, and wound with wire to hold them in position, and wrapped with cloth or paper or plaited with thread or other suitable material, as set forth.

MONROE M. COPP.

Witnesses:

F. O. McCLEARY,  
W. R. KEYWORTH.