

W. F. COLLIER.  
WIRE FOR WIRE GOODS.

No. 107,006.

Patented Sept. 6, 1870.



Fig. 1



Fig. 2

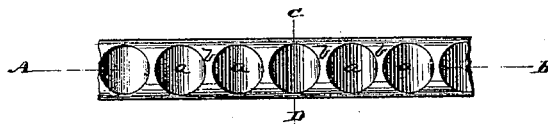


Fig. 3

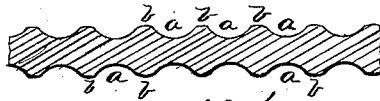


Fig. 4



Fig. 5

Witnesses

Thos. H. Dodge  
A. E. Peirce

Inventor

Wm. F. Collier

# United States Patent Office.

WILLIAM F. COLLIER, OF WORCESTER, MASSACHUSETTS.

*Letters Patent No. 107,006, dated September 6, 1870.*

## IMPROVEMENT IN WIRE FOR WIRE GOODS.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern :*

Be it known that I, WILLIAM F. COLLIER, of the city and county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Wire for making Wire Goods, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing which forms a part of this specification, in which—

Figure 1 represents a plan view of a piece of my improved wire.

Figure 2 represents a side view of my improved wire.

Figure 3 represents a plan view of the wire upon an enlarged scale.

Figure 4 represents a longitudinal section of the same at line A B, fig. 3; and

Figure 5 represents a transverse section at line C D, fig. 3.

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

The nature of my invention consists in an improved wire for making wire goods, as hereinafter explained.

My improved wire is formed from round wire, which is passed between a pair of serrated or grooved pressure-rollers, which slightly flatten the wire, and form upon its upper and lower sides, at regular intervals, a series of depressions, *a*, as indicated in the drawing.

The pressure upon the wire also compresses the

fiber of the metal and makes the wire much stiffer than ordinary wire, so that the goods manufactured therefrom are much more durable and less likely to become bent or injured than those made from ordinary wire, while they can be made much cheaper and quicker than those composed of twisted strands of wire.

The appearance of goods made from my improved wire is far superior to those of plain or twisted wire, inasmuch as each of the depressions *a* and elevated points *b* form reflectors, thereby producing, when tinned or gilded, bright scintillations of light, which give the parts a very brilliant and beautiful wavy appearance, causing them to look much brighter and richer than goods made from wire of ordinary construction.

In lieu of passing the wire between serrated rollers, the depressions *a* may be formed with a suitable stamp and die.

The wire may be indented on all sides if preferred. Having described my improvements in wire for making wire goods,

What I claim therein as new and of my invention, and desire to secure by Letters Patent as an improved article of manufacture, is—

A wire for making wire goods, made as herein described, and shown in the accompanying drawing.

WM. F. COLLIER.

Witnesses:

THOS. H. DODGE,  
A. E. PEIRCE.