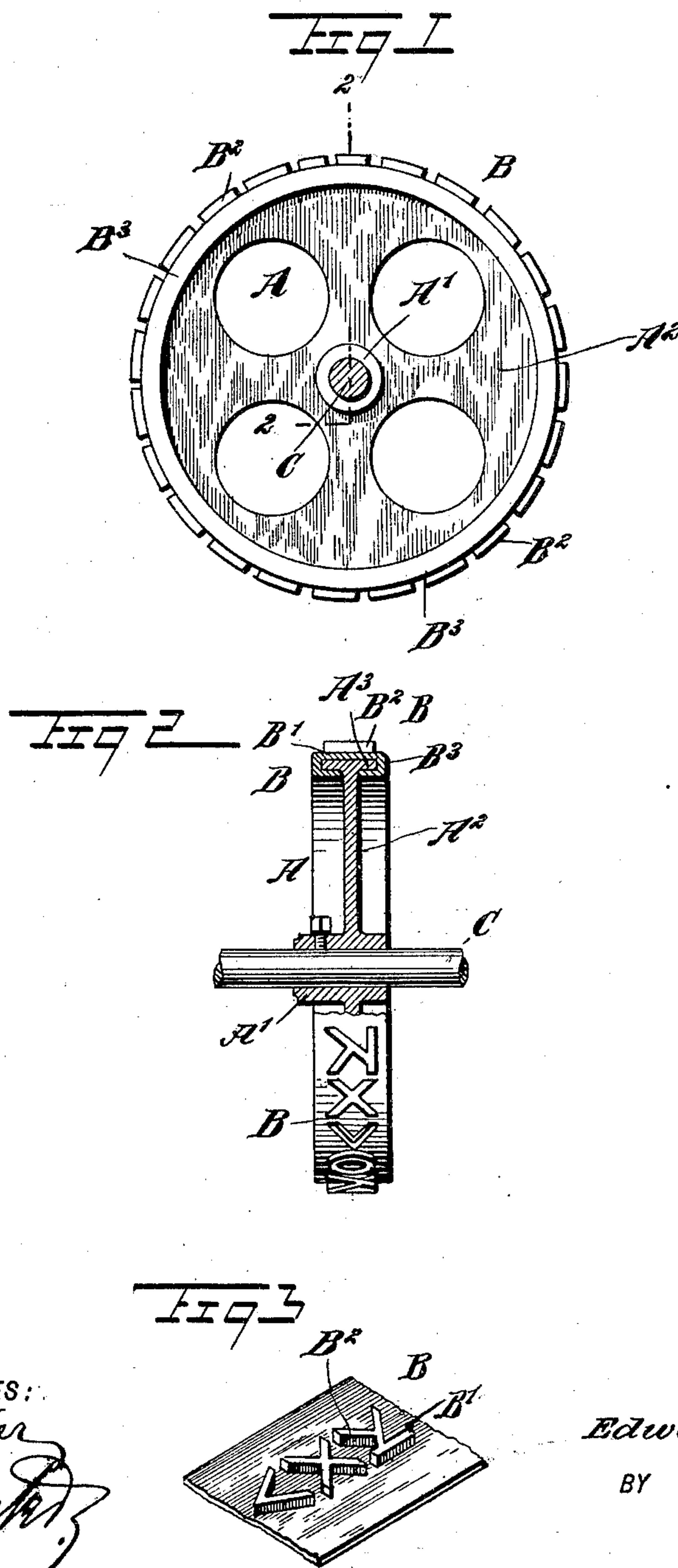


No. 676,716.

Patented June 18, 1901.

E. FUCHS.  
METAL PRINTING WHEEL.  
(Application filed Sept. 26, 1900.)

(No Model.)



# UNITED STATES PATENT OFFICE.

EDWARD FUCHS, OF NEW YORK, N. Y., ASSIGNOR TO THE NEW YORK  
STENCIL WORKS, OF SAME PLACE.

## METAL PRINTING-WHEEL.

SPECIFICATION forming part of Letters Patent No. 676,716, dated June 18, 1901.

Application filed September 26, 1900. Serial No. 31,159. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD FUCHS, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Metal Printing-Wheel, of which the following is a full, clear, and exact description.

The invention relates to printing-telegraph and other machines using a printing-wheel for printing type characters on tape, paper sheets, and the like.

The object of the invention is to provide a new and improved printing-wheel which is simple and durable in construction, can be cheaply manufactured, and is arranged to permit convenient replacing of worn or injured type characters on the body of the wheel by new ones.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvedment. Fig. 2 is a transverse section of the same on the line 2 2 in Fig. 1, and Fig. 3 is a perspective view of the type-character blank.

The improved metal printing-wheel consists, essentially, of a wheel-body A and a separable rim B, of sheet metal or other suitable material. The wheel-body A comprises a hub A' for securing the printing-wheel to a shaft C, and from said hub extends a web A<sup>2</sup>, terminating in a body-rim A<sup>3</sup>, projecting on both sides of the web A<sup>2</sup>, as is plainly indicated in Fig. 2. The separable rim B is formed of a strip B' of sheet metal, the type characters B<sup>2</sup> being integrally raised thereon, as plainly indicated in Figs. 1 and 3, and said strip B' is extended beyond the sides of the type characters to permit of crimping the said sides of the strip upon the rim A<sup>3</sup> of the wheel-body to form L-shaped or angular flanges B<sup>3</sup>, engaging both the side edges of the body-rim A<sup>3</sup> and the inner surface of said rim, the inner edges of the flanges abutting

against the faces of the web A<sup>2</sup>, as is plainly indicated in Fig. 2. The length of the strip B is equal to the length of the peripheral surface of the wheel-rim A<sup>3</sup>, so that when the strip is placed in position on the body-rim the ends of the strip meet and abut, so as to form a continuous peripheral surface on the wheel, the strip being held in place by the side edges being crimped upon the body-rim A<sup>3</sup>, as above explained. Thus no other fastening means whatever are required to secure the strip in place on the body of the wheel, and in case the type characters are worn out or enlarged the strip can be readily removed from the body-rim and replaced with a new one in the manner above set forth.

From the foregoing it is evident that the metal printing-wheel can be cheaply manufactured, and the body of the wheel can be reused as often as desired by simply placing a new metal type-character strip upon the rim of the body in the manner above set forth.

By having the ends of the strip abutting on the web a very secure fastening is produced for the strip, so that the latter is not liable to shift or move on the wheel-body.

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

1. A printing-wheel having a web and a cylindrical rim projecting from the outer end of the web at each side thereof, and a type-strip engaging the outer surface of the said rim, and formed with flanges embracing the rim and engaging the edges and the inner surface thereof.

2. A printing-wheel having a web and a cylindrical rim projecting from the outer end of the web at each side thereof, and a type-strip engaging the outer surface of the said rim and formed with flanges embracing the rim and engaging the edges and the inner surface thereof, the edges of said flanges being in engagement with the web.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD FUCHS.

Witnesses:

P. VAN ALSTYNE,  
G. A. HEWLETT.