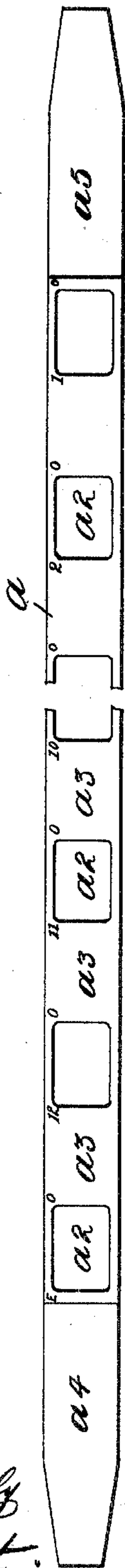


No. 780,283.

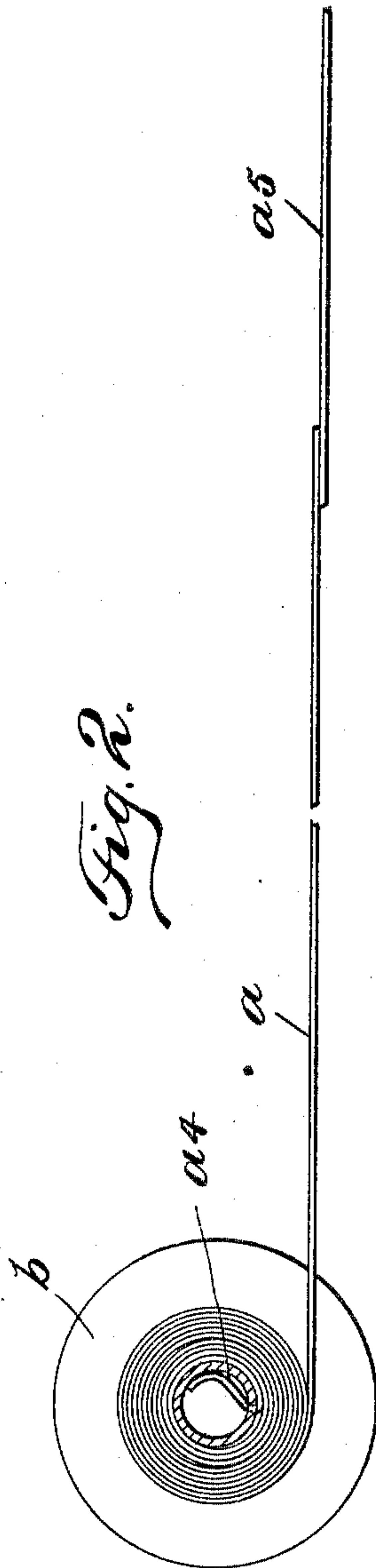
PATENTED JAN. 17, 1905.

P. T. HAHN,  
PHOTOGRAPHIC FILM.  
APPLICATION FILED JULY 7, 1904.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*A. B. Mattingly*  
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ATTORNEYS

# UNITED STATES PATENT OFFICE.

PAUL T. HAHN, OF WOODCLIFF, NEW JERSEY.

## PHOTOGRAPHIC FILM.

**SPECIFICATION** forming part of Letters Patent No. 780,283, dated January 17, 1905.

Original application filed May 7, 1904, Serial No. 206,829. Divided and this application filed July 7, 1904. Serial No. 215,573.

*To all whom it may concern:*

Be it known that I, PAUL T. HAHN, a citizen of the United States, residing at Woodcliff, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Photographic Films, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to photographic apparatus, and particularly to endless-film strips for use in film-cameras; and the object of the invention is to provide a film-strip which is provided at regular intervals with openings between which are film-sections, a further object being to provide a film-strip designed particularly for use in connection with a film-camera of the class shown and described in an application for Letters Patent of the United States filed by me May 7, 1904, Serial No. 206,829, of which this application is a division.

The invention described and claimed herein is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a plan view of a film-strip made according to my invention, and Fig. 2 an edge view thereof and showing the same wound upon a spool.

In the practice of my invention I provide a film-strip  $a$ , which is sensitized and on which pictures may be printed in the usual manner as in ordinary photographic films, and said strip is provided at regular intervals with holes or openings  $a^2$ , between which are film-

sections  $a^3$ . The film-strip  $a$  is provided at one end with a blank  $a^4$  and at the opposite end with a blank  $a^5$ , and in practice the end  $a^4$  is connected with a spool  $b$ , as shown in Fig. 2, and on which said strip is wound.

It will be observed that each of the sections  $a^3$  is numbered at the upper right-hand corner thereof, beginning with the end  $a^5$  of the strip, and each of the openings  $a^2$  in said strip is marked at the upper right-hand corner by the character  $o$ , or zero, while the beginning of the blank end portion  $a^4$  or the end of the strip adjacent thereto is marked by the character  $e$ .

The method of using this film-strip is fully described in the application hereinbefore referred to, although this invention is not limited in its use to the particular form of camera shown and described in said application.

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

1. A sensitized photographic film-strip having focusing openings at regular intervals, substantially as shown and described.

2. A sensitized photographic film-strip having focusing openings at regular intervals, the sections between said openings being all numbered in regular order, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of July, 1904.

PAUL T. HAHN.

Witnesses:

C. E. MULREANY,  
F. A. STEWART.