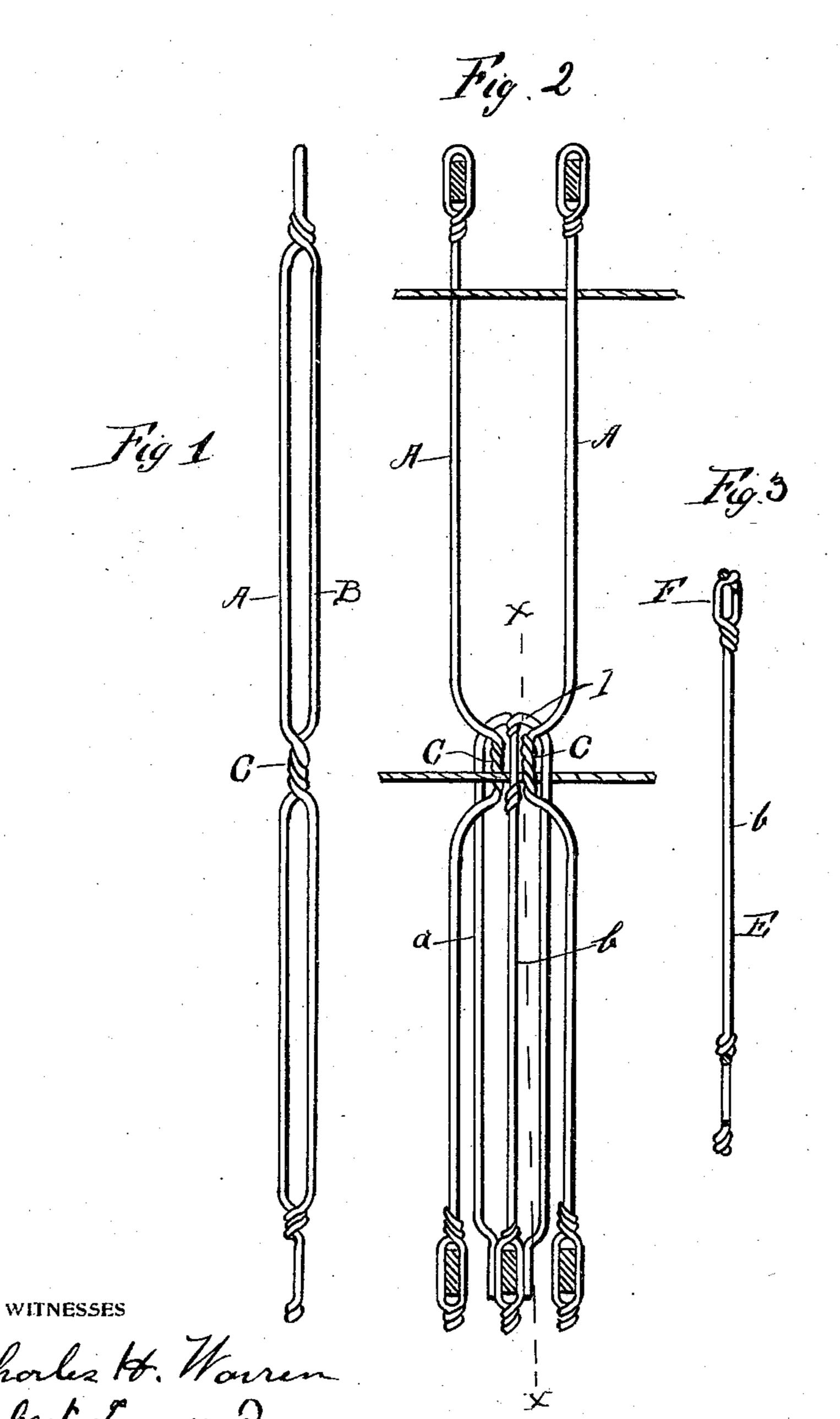
W. B. DIXON. HARNESS FOR CROSS WEAVING. APPLICATION FILED MAR. 20, 1909.

966,668.

Patented Aug. 9, 1910.



INVENTOR

Byllallion 13 Dixon

The Manual ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM B. DIXON, OF PHILADELPHIA, PENNSYLVANIA.

HARNESS FOR CROSS-WEAVING.

966,668.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed March 20, 1909. Serial No. 484,729.

To all whom it may concern:

Be it known that I, William B. Dixon, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia 5 and State of Pennsylvania, have invented a certain new and useful Improvement in Harness for Cross-Weaving, of which the

following is a specification.

My invention relates to a new and useful 10 improvement in harness for cross weaving, and has for its object to improve upon the construction in United States Patent No. 661,656, issued to me November 13, 1900, it being intended to overcome the disadvantage 15 in the construction shown in said patent of having the eye in the half heddle turned away from the line of the crossing thread and also to bring this eye below the point of contact of the guide heddles with the top of 20 the half heddle.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the

25 claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring 30 by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a front view of one of the heddle guides. Fig. 2, a side view showing a pair of heddle guides with the half heddle 35 fitted thereto. Fig. 3, a front view of the

half heddle.

As stated in my former patent above referred to, the general features of this harness consist of a half heddle which 40 is strung upon a heddle frame at one end and at its other or free end is strung upon guides, and in my present invention I utilize the same guides in the same manner as set forth in my former patent, but I so con-45 struct the half heddle as to facilitate this operation and to be adapted to carry and manipulate the crossing thread.

As here shown A represents a pair of heddle guides which are provided with long 50 loops B, their centers being twisted together and set inward as indicated at C, their upper and lower ends having the eyes D formed thereon for attachment to the guide frames.

E represents the half heddle which is 55 preferably formed from wire and consists of the two side strands a and a central l

strand b, the side strands adapted to run through the elongated loops B in the heddle guides while upon the central strand is formed the eye F for the guidance and ma- 60 nipulation of the doup thread, and upon the opposite end of this central strand is formed the eye G for attachment to the bar H of the heddle frame. By this arrangement it will be seen that when either of the guides 65 A is moved upward the twisted portion C thereof will come in contact with the curved upper end of the half heddle indicated at I, and this point of contact being above the eye F will bring said eye in substantially 70 the same horizontal plane with the twisted section C, and as the eye F stands at right angles to the line of the doup thread passing therethrough it will be seen that the thread will not be cramped or chafed as 75 was the case in the construction shown in my former patent.

Having thus fully described my invention, what I claim as new and useful, is—

1. As a new article of manufacture, a 80 half heddle for loom harness of the character described consisting of two side strands and a central strand, and an eye for the guidance of the doup thread formed upon the central strand, said eye lying inside of 85 the side strands.

2. In combination with a loom harness of the character described, guides, a half heddle formed of two side strands and a central strand, the side strands being adapted to 90 engage the guides, two eyes formed upon the central strand, one of said eyes serving to attach the device to the heddle frame while the other eye is adapted to guide a doup thread, as specified.

3. The herein described combination of a pair of guides, a half heddle composed of three strands, the side strands engaging with the guides, an eye formed upon the central strand at right angles to the body of the 100 half heddle and lying below the point of contact with the guides, and an eye formed upon the opposite end of the central strand by which the half heddle is attached to the heddle frame, as specified.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

WILLIAM B. DIXON.

Witnesses:

HERBERT TOWNSEND, CHARLES H. WARREN.