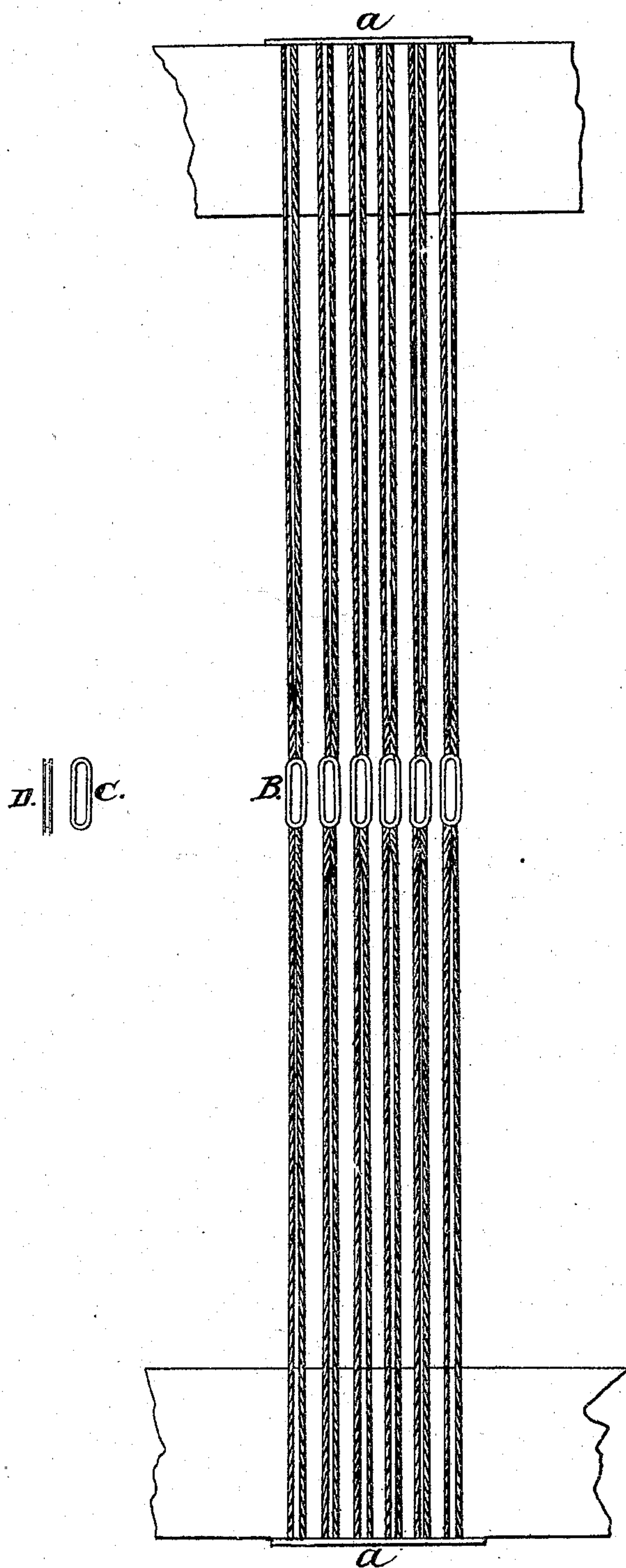


C. T. JUDKINS.
WEAVER'S HARNESS.

No. 7,939.

Patented Feb. 18, 1851.



UNITED STATES PATENT OFFICE.

CHARLES T. JUDKINS, OF LOWELL, MASSACHUSETTS.

WEAVER'S HEDDLE.

Specification of Letters Patent No. 7,939, dated February 18, 1851.

To all whom it may concern:

Be it known that I, the undersigned, CHARLES TIOT JUDKINS, of Lowell, in the county of Middlesex, State of Massachusetts
5 and United States of America, gentleman, have discovered a new and useful improvement in weavers' harness, which consists in covering or partially inclosing or casing or lining with any suitable metal that part of the
10 harness or that part of the heddles of looms through which the warp-threads are passed to be elevated and depressed in the operation of weaving.

One form of weavers' harness or heddles
15 which are in general use is made of twine with loops or eyes through which the warp passes and which are formed by knotting the twine at the top and bottom of such loops. Another form of weavers' harness or heddles is that shown by the model the same
20 having been patented by Kasimar Nogel. This metal casing or lining may be added to or covered over the eyes or loops or harness or heddles of whatever fibrous substance they may be made whereby they are
25 more durable and less injurious to the warp than when used without a metal lining.

The manner in which I carry my invention into operation is by taking each eye
30 or loop of harness or heddle and introducing into it a piece of metal shaped like that in the drawing and model, then closing or pressing the thin piece of metal on each side against the eye or loop whereby it becomes fixed.
35 comes fixed.

a, a, represents the heddles of the harness made of cotton wool or other fibrous material.

B, represents the eye or loop of the heddle covered with a metallic substance as
40 hereinbefore described.

C is the front view of a piece of metal which I insert into the eye or loop of the heddle.

D, is the edge view of the same. 45

Having now described the nature of my invention and in what manner the same is carried into effect I declare that I do not claim metal in combination with harness or heddles when used in the solid state and
50 fixed to the harness or heddle yarn at each end such heddle yarn not being continuous as in my invention but

What I do claim as my invention is—

Covering coating or lining the loops or
55 eyes in heddles or harness with metal by the process I have shown or by any equivalent process.

In testimony whereof I the said CHARLES TIOT JUDKINS, have hereto subscribed my
60 name in the presence of the witnesses whose names are hereto subscribed on the twenty third day of March in the year of our Lord one thousand eight hundred and fifty.

CHARLES TIOT JUDKINS.

In presence of—

WILLM. CONDELL,
SAM PEARCE.