

No. 704,642.

Patented July 15, 1902.

O. HOFFMANN.
SHAKING STRAP FOR LOOMS.

(Application filed July 23, 1900.)

(No Model.)

Fig. 1.

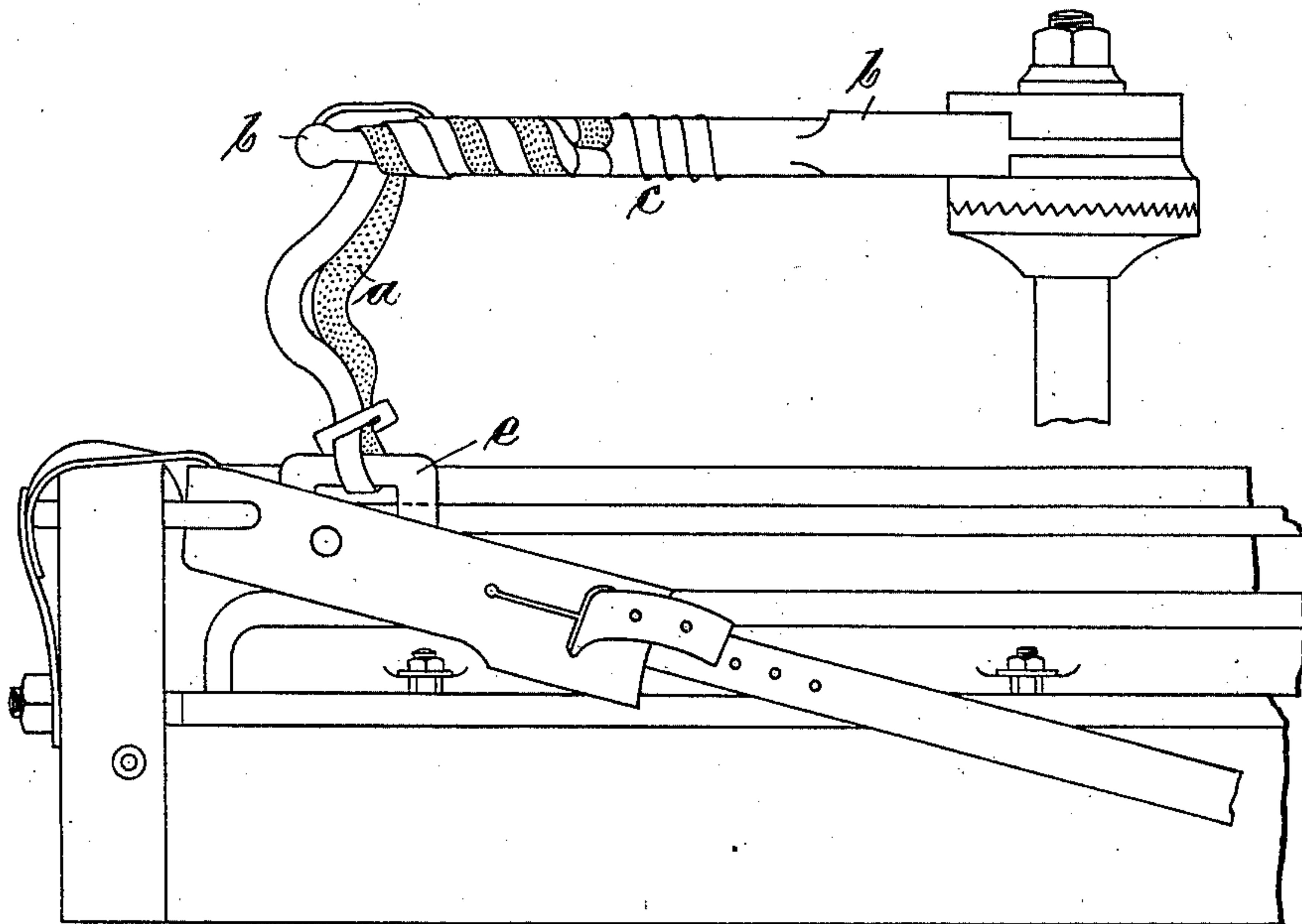
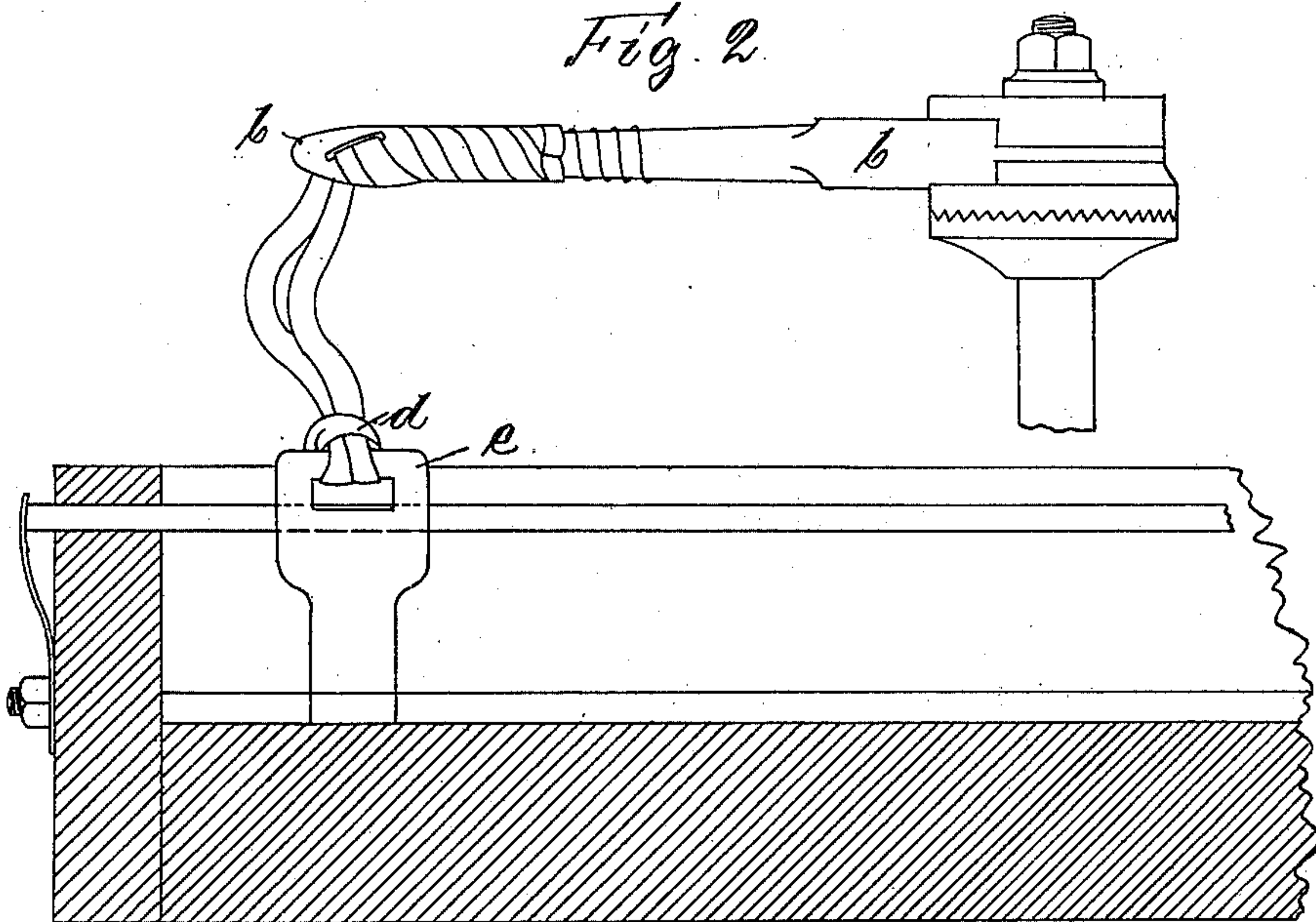


Fig. 2.



Witnesses:
Emil Haysat
Arthur Scholz.

Inventor
Oswald Hoffmann
by *[Signature]*
Attorneys.

UNITED STATES PATENT OFFICE.

OSWALD HOFFMANN, OF NEUGERSDORF, GERMANY.

SHAKING-STRAP FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 704,642, dated July 15, 1902.

Application filed July 23, 1900. Serial No. 24,593. (No model.)

To all whom it may concern:

Be it known that I, OSWALD HOFFMANN, a subject of the King of Saxony, and a resident of Neugersdorf, in the Kingdom of Saxony, German Empire, have invented certain new and useful Improvements in Picking-Straps for Looms, of which the following is an exact specification.

The general arrangements of picking-straps employed hitherto show many disadvantages, particularly by getting very quickly worn out in the part where the strap leaves the picking-arm or in that where the strap is fastened to the picker. In the case when the strap breaks near the picking-arm a great piece of the strap gets lost. In the other case when the strap breaks near the picker the loss is not so great, but there is a risk that the weaver might get hurt by the loose piece of the strap, which is thrown about, so that it often causes the loss of his eyesight.

The present invention has for its purpose to do away with these drawbacks—viz., to reduce the breaking of the picking-strap to a minimum and to increase the durability of the same to a great extent. To attain this, the strap joining the picking-arm with the picker is made not as customary single, but double, and made in the form of an endless strap. When the latter becomes worn out in the spots where it is particularly exposed to the wear, the strap is turned until the new portion takes the place of that which is worn out. It is necessary that the strap be arranged so that it can be elongated or shortened between the picking-arm and the picker for the purpose of regulating the picking action.

In order to make my invention more clear, I refer to the accompanying drawings, in which—

Figure 1 shows a front view of one end of the loom and of the invention applied thereto; Fig. 2, a modification of the same.

As to Fig. 1 the endless strap *a* is wound several times around the picking-arm *b* and is fastened, by means of a cord *c*, to the arm *b*

in such a way that when slackening the strap the latter may be easily turned. If the picking-strap is made in form of an endless strap by sewing or clamping the two ends together before its application to the loom, the strap *a* is first hooked to the picker *e*, as shown in Fig. 2, and thereafter wound upon and fastened to the picking-arm *b* in the manner as described above. The turning of the strap can be attained in a few seconds after the loop *d* has been slackened upon the picker and undertaken from time to time when the loom is stopped for lubricating if the latter is carried out by another man charged with this work, so that the weaver avoids any loss of time. The refastening of a broken common picking-strap requires much time and cannot be delayed to a suitable occasion. Besides, owing to the frequent and not exact refastening of the picking-strap, breakages in the picker and in the picking-arm become very easy. While the wearing out of the common picking-straps occurs on certain spots only and large parts are lost, it is possible by turning my new strap to expose uniformly the whole picking-strap to the wear. The durability of a piece of strap formed by the new method is thus considerably greater than that of an equal piece by the former methods, as has been proved by experience.

Having thus fully described the nature of my invention, what I desire to secure by Letters Patent of the United States is—

In looms, an endless picking-strap *a* in combination with a picking-arm *b* around which the strap is wound several times, a picker *e* with which the strap engages and a cord *c* by means of which the strap is fastened to the picking-arm, substantially as described and for the purpose set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

OSWALD HOFFMANN.

Witnesses:

WILLIAM K. HERZOG,
OTTO B. GULICS.