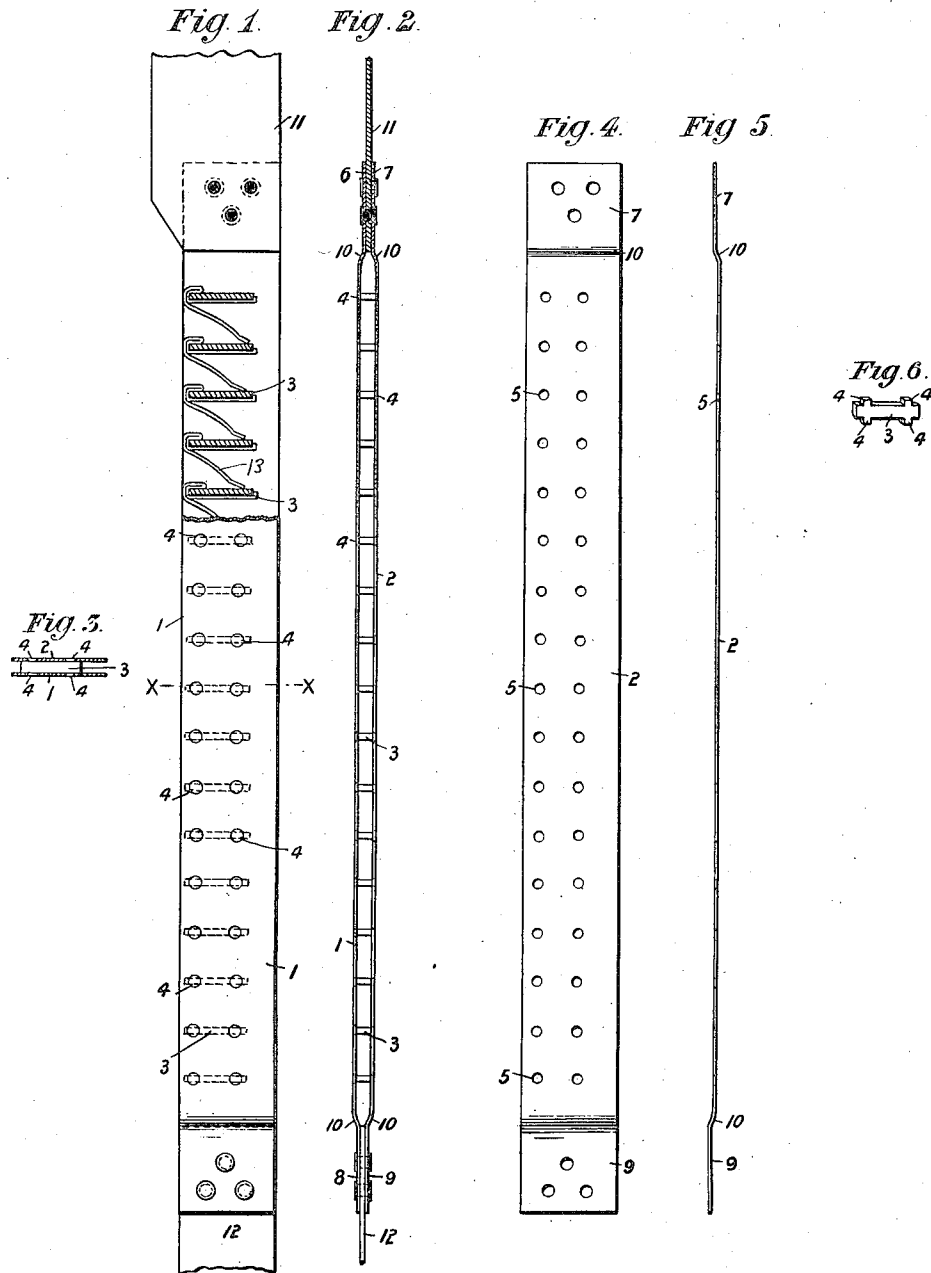


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TUFT YARN CARRIER FOR PILE FABRIC LOOMS.
APPLICATION FILED MAY 1, 1908.

942,999.

Patented Dec. 14, 1909.



Witnesses.
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ATTY

UNITED STATES PATENT OFFICE.

CECIL CHARLES BRINTON, OF STOURPORT, ENGLAND.

TUFT-YARN CARRIER FOR PILE-FABRIC LOOMS.

942,999.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed May 1, 1908. Serial No. 430,390.

To all whom it may concern:

Be it known that I, CECIL CHARLES BRINTON, a subject of His Majesty the King of Great Britain and Ireland, residing at Moor Hall, Stourport, in the county of Worcester, England; engineer, have invented new and useful Improvements in Tuft-Yarn Carriers for Pile-Fabric Looms, of which the following is a specification.

This invention has reference to yarn carriers for looms for weaving tufted or pile fabrics. In the kind of loom with which these yarn carriers are used, the yarn carriers, which carry the yarns for forming the tufts, are connected with jacquard mechanism so that at each jacquard action they are lifted by the said mechanism the varying distances required to bring the proper yarns in line with the grippers in accordance with the design or pattern to be produced. These grippers take hold of the proper yarns and after the yarns have been drawn out and severed, the grippers carry the tufts down to the fell of the cloth. A loom working in this way is described in the British specification of John Brinton and Company Limited and another No. 15680 of A. D. 1890.

My invention consists of the herein described improvements in the manufacture of the said yarn carriers whereby they are rendered very strong and the cost of their production is very considerably reduced.

My invention is illustrated by the accompanying drawings on which—

Figure 1 is a side elevation partly in section of a yarn carrier constructed in accordance with this invention; Fig. 2 is a front elevation of the same partly in section; Fig. 3 is a sectional plan of the same on line *x x* of Fig. 1; Fig. 4 is a front elevation and Fig. 5 is a side elevation of one of the side plates of the yarn carrier separately and Fig. 6 shows separately one of the cross bars of the yarn carrier.

In carrying out this invention the yarn carrier is formed of a pair of thin metal (preferably steel) vertical side plates

marked respectively 1 and 2 arranged parallel with one another side by side at the proper distance apart with intermediate divisional horizontal cross bars 3 arranged at the proper equal distances apart to receive the yarns between them. These divisional cross bars 3 are secured to the side plates 1, 2, by being made as sheet metal blanks of the shape shown by Fig. 6 each having at each side at least two lateral projections forming rivets which pass through corresponding holes 5 in the side plates 1, 2, and are riveted over on the outside as in Figs. 1, 2 and 3 thereby effectually securing the divisional cross bars 3 to the side plates 1, 2. The upper ends 6, 7, and the lower ends 8, 9, of the two side plates 1, 2, are rabbeted slightly toward each other at 10 and are riveted to the two thin metal bars 11, 12, which are interposed between the ends of the side plates 1, 2, and form the upper and lower extensions of the yarn carrier which work in the yarn carrier guides of the loom.

The yarn check springs 13 may be of the usual kind and be carried by the divisional cross bars 3 in the usual way. These check springs are shown on my drawings but they form no part of my invention.

What I claim as my invention, and desire to secure by Letters Patent is:—

A yarn carrier of the type herein referred to formed essentially of a pair of thin metal side plates with upper and lower extensions and a series of divisional cross bars arranged at equal distances apart between said side plates and provided with lateral projections forming rivets which pass through holes in said side plates and are riveted over so as to secure the cross bars thereto, substantially as set forth.

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

CECIL CHARLES BRINTON.

Witnesses:

CHARLES BOSWORTH KESLEY,
THOMAS JOHN ROWE.