

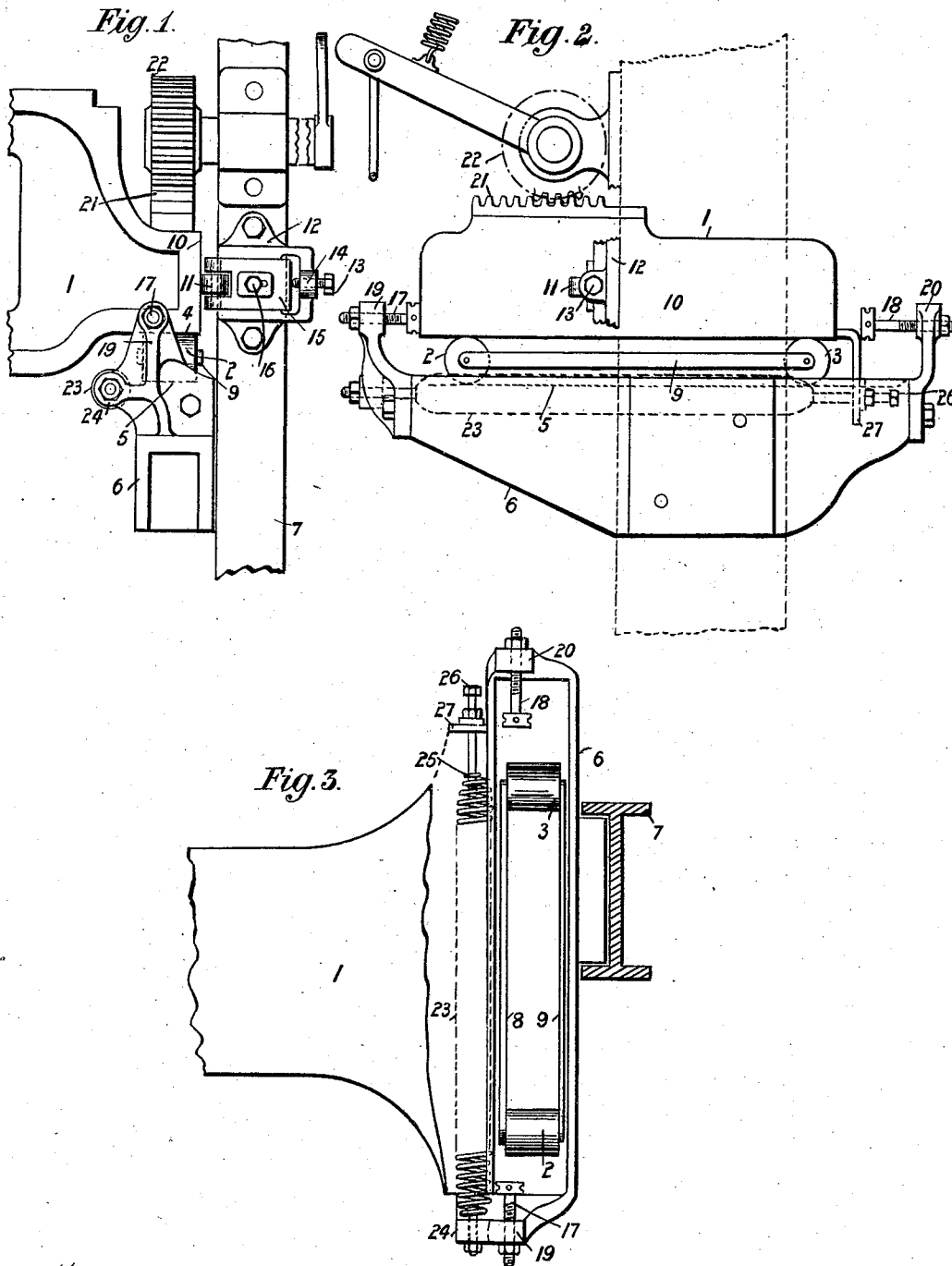
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T. GREENWOOD.

LOOM FOR THE MANUFACTURE OF TUFTED OR PILE FABRICS.

APPLICATION FILED MAR. 20, 1907.



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UNITED STATES PATENT OFFICE.

THOMAS GREENWOOD, OF WOLVERLEY, NEAR KIDDERMINSTER, ENGLAND.

LOOM FOR THE MANUFACTURE OF TUFTED OR PILE FABRICS.

No. 872,506.

Specification of Letters Patent.

Patented Dec. 3, 1907.

Application filed March 20, 1907. Serial No. 363,339.

To all whom it may concern:

Be it known that I, THOMAS GREENWOOD, subject of His Majesty the King of Great Britain and Ireland, residing at The Shrubbery, Wolverley, near Kidderminster, in the county of Worcester, England, mechanic, have invented new and useful Improvements in Looms for the Manufacture of Tufted or Pile Fabrics, of which the following is a specification.

This invention has reference to looms for the manufacture of tufted or pile fabrics and more particularly of carpets or fabrics of the kind known as Royal Axminster or moquette. A loom of the kind to which this invention relates is described in the specification of British Letters Patent No. 15680 of 1890 and various improvements in the same loom are described in the subsequent British Specifications Nos. 11268 of 1891, 24086 of 1892, 11397 of 1894, and 1095 of 1900. In a loom of the kind above referred to the pile of the carpet or fabric is formed of tufts which are severed from the pile yarns in the yarn carriers and are brought forward by grippers which lay the tufts against the fell of the carpet where the tufts are bound into the carpet by the weft when the latter is beaten up by the slay. When a loom of this kind is made extra wide so as to weave much wider carpets and fabrics than is possible with the loom constructed as described in the specifications above referred to, the top beam which carries the vertical bars or yarn carriers and knife comb and traveling knives owing to its great width is very heavy, and my present invention is directed to provide simple and improved means for mounting this top beam so that it will move backwards and forwards in the operation of the loom, more easily than it would do if mounted in the usual way.

My invention is illustrated by the accompanying drawings on which

Figure 1 is a front elevation of one end of the top beam and my improved means for mounting the same so as to enable the top beam to move easily backwards and forwards in the operation of the loom; Fig. 2 is a side elevation of the same and Fig. 3 is a sectional plan of the same.

In carrying out this invention I mount each end of the top beam 1 on two or more, preferably two, rollers 2, 3, which are arranged underneath the ends of the top beam 1 between planed surfaces 4 thereon and planed surfaces 5 on end brackets or supports 6 fixed to the top part of the loom frame 7 so that the top beam 1 works to and fro on these rollers 2, 3, arranged at each end of the same. Side links 8, 9, connect the axles of the rollers 2, 3, together and keep them at the proper distance apart and parallel with each other.

Bearing against each end 10 of the top beam 1 there is also an adjustable roller 11 carried by a bracket 12 fixed to the face of the upright side frame 7 of the loom and these rollers 11 are adapted to bear against the vertical planed surfaces 10 of the end of the top beam 1 so as to prevent the top beam from moving endwise and to permit of its proper endwise adjustment which is done by set screws 13 passing through end lugs 14 of the brackets 12. It will be understood that one of these rollers 11 and its accessories is arranged at each end of the top beam 1 so that the endwise adjustment of the top beam 1 can readily be obtained by adjusting the set screws 13 and moving the parts 15 of the brackets which carry the rollers 11 in the one or the other direction and fixing these adjustable parts 15 of the brackets and the rollers 11 by screws 16 which pass through slot-holes in the part 15 of the bracket and clamp the same to the stationary part 12.

Two adjustable stop pins 17, 18, are provided and carried by brackets 19, 20 on the ends of the brackets 6 and these limit the forward and backward movements of the top beam 1 which it will be understood is operated by the usual rack 21 and pinion mechanism 22, a coiled wire spring 23 being employed and connecting the beam to the bracket 19 at 24 to take up the back lash on the rack and pinion gear. The other end of the spring 23 is connected by the long screw 26 to the downwardly projecting bracket 27 fixed to the top beam 1.

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

In a loom of the class described, a frame,

supporting brackets thereon, a top beam
having planed vertical surfaces at the ends
thereof, rollers arranged underneath the ends
of the beam and adapted to roll on the brackets
5 and adjustable end rollers carried by said
frame and adapted to bear against the said
vertical surfaces.

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

THOMAS GREENWOOD.

Witnesses:

JAMES AMPHERT MORTON,
ELLIS WILLIAM TALBOT.