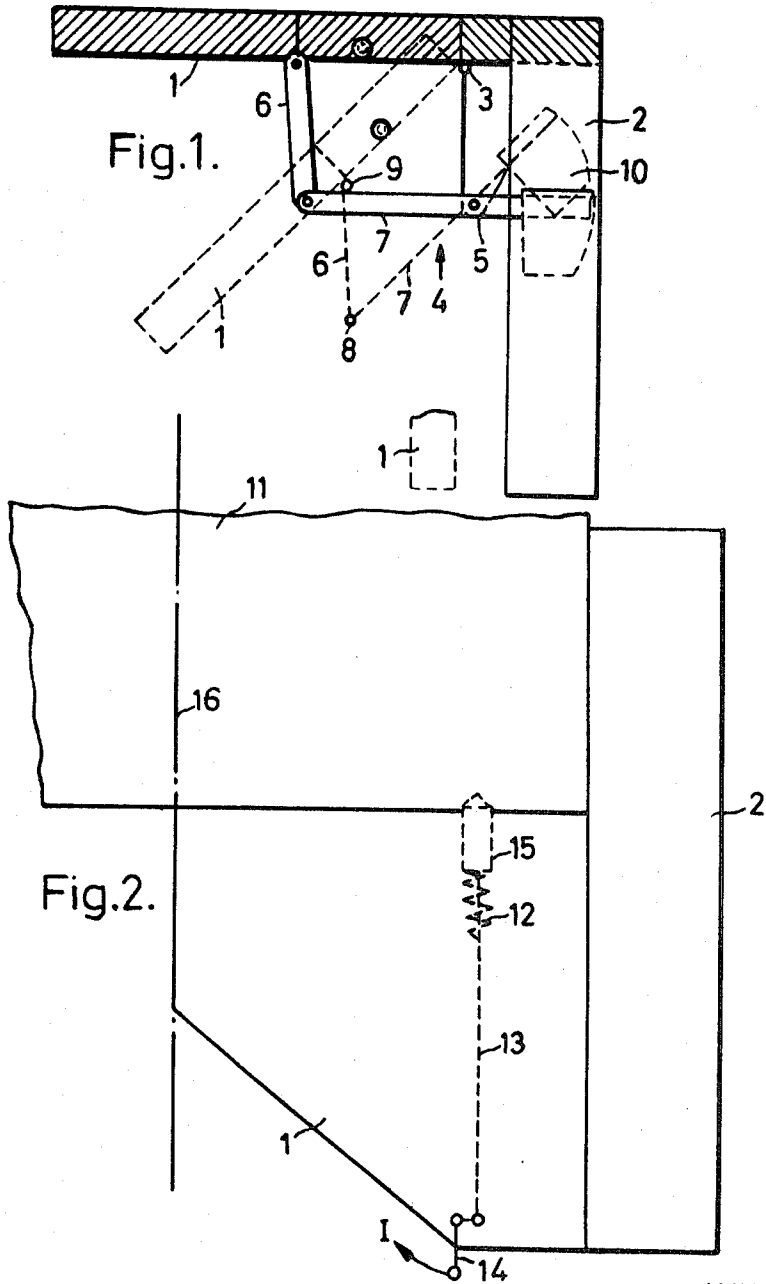


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FOLDING TABLE FOR CONNECTION TO THE WORKTABLE  
OF PAPER CUTTING MACHINES  
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**FOLDING TABLE FOR CONNECTION TO THE  
WORKTABLE OF PAPER CUTTING MACHINES**

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4 Claims

**ABSTRACT OF THE DISCLOSURE**

A folding table, for connection to the worktable of a paper cutting machine, one end of which is pivotally mounted on the side table of the machine and in which the movement of the folding table from the in-service position to the out-of-service position, and vice versa, takes place by means of an articulated lever linkage.

This invention relates to a folding table for connection to the worktable of a paper cutting machine. In one form of such folding table two parts of the table are hinged together and of which the part facing towards the worktable of the machine is pivoted below the front of the machine table, while the rear end of the part which faces away from the machine table is guided in a guide rail.

In this arrangement, the pivotal movement of the folding table is actuated by a drive system which is switched off, by means of limit switches, when the particular in-service or out-of-service position of the folding table is reached.

The underlying problem of the invention is to effect the inward and outward travel of the folding table by relatively simple means, since, in practice, a mechanical drive system for the table is unnecessary in many cases.

In the case of a folding table which is to be connected to the worktable of paper cutting machines and of which one end is pivotally mounted on the side table of the machine, the abovementioned problem is solved, according to the invention, by the fact that the movement of the folding table from the in-service position to the out-of-service position, and vice versa, takes place by means of a linkage rod which can pivot about a fixed rotational axis, one end of this rod being mounted on the folding table, while the other end carries a counterbalance weight which gives rise to automatic pivoting movement of the table. In this way, the folding table can be swung into the particular position desired, without any special driving means.

To enable the table to be secured in its in-service position, there is arranged, on the underside of the table, a spring-actuated locking rod, one end of which engages, in the locking position, in the worktable of the machine and thus locks the table in its in-service position. Unlocking is effected by means of an elbow lever which is located at the front of the folding table and is operated from that position.

The size of the folding table is such that, in the forward position, i.e. the in-service position, it reaches as far as the longitudinal centre line of the worktable of the paper cutting machine. If the folding table is to extend over the entire width of the worktable, it is expedient to provide tables at both sides of the machine, which are independent of one another and can be brought into the in-service position together or individually, as required.

The invention is explained in greater detail below with

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reference to the exemplified embodiment illustrated in the drawing, in which:

FIG. 1 shows a vertical section through the folding table pivotally mounted on the side table of the machine, the broken lines showing the position of the table while it is being swung inwards, and,

FIG. 2 shows a corresponding plan view.

The folding table 1 is mounted, for pivotal movement about the axis 3, on the side table 2 of the paper cutting machine, which is not illustrated. The movement of the folding table 1 from the in-service position to the out-of-service position, and vice versa, takes place by means of an articulated lever linkage 4 which is capable of pivotal movement about a fixed rotational axis 5. The linkage 4 is made up of two arms 6, 7 which are connected together at the articulation 8. The arm 6 is rotatably mounted at the bearing 9 which is located on the underside of the folding table 1. The arm 7 is pivotally connected to the side table by the bearing 5 intermediate its ends and carries a counterbalance weight 10 at its free end. The locking of the folding table 1 on the machine table 11 is effected by means of a rod 13 which operates under the action of a spring 12 and the end 15 of which engages, in the locking position, in a corresponding recess in the worktable. Preferably, as illustrated, the end 15 of rod 13 is tapered or conical in shape, so as to effect a self-locking engagement with such recess when the folding table is raised to its in-service position. Unlocking is effected by means of an elbow lever 14 which, for this purpose, is swung outwards in the direction of the arrow I and, in the process, pulls the end 15 out of the machine table. It will be appreciated that the folding table 1, the worktable 2, and the linkage arms 6 and 7 may advantageously, as illustrated, form a parallel linkage.

The dimensions of the folding table 1 are kept such, that in its forward or raised position it extends as far as the region of the longitudinal centre line 16 of the working table 11, that is to say, therefore, it covers half the width of the machine table. Should it be necessary to cover the entire width of the machine table, another folding table, corresponding to the folding table 1, may be disposed on the opposite side of the working table.

I claim:

1. A folding table for pivotal connection to the worktable of a paper cutting machine and adapted for pivotal movement between a substantially horizontal in-service position and a substantially vertical lowered position, and having an articulated linkage connected said folding table to the worktable, said linkage comprising a first arm pivotally connected at one end to said folding table, a second arm pivotally connected at one end to the opposite end of said first arm and pivotally connected intermediate its ends to the worktable, and counterweight means secured to the free end of said second arm.

2. A folding table as defined in claim 1, further comprising releasable locking means for positively locking said folding table in said horizontal in-service position.

3. A folding table as defined in claim 1, wherein said folding table, the worktable, and said first and second arms define a parallel linkage.

4. A folding table as defined in claim 2, wherein said locking means comprises a locking rod adapted to engage a mating recess in the worktable when said folding table is in said in-service position, spring means normally biasing said locking rod into engagement with the recess, and pivotable lever means connected to said locking rod to

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permit retracting said rod from the recess and unlocking  
said folding table.

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