Oct. 1, 1935. H. E. TAUTZ 2,015,734

SECTIONAL JOINTER FENCE

Filed June 13, 1935

FIG. 1

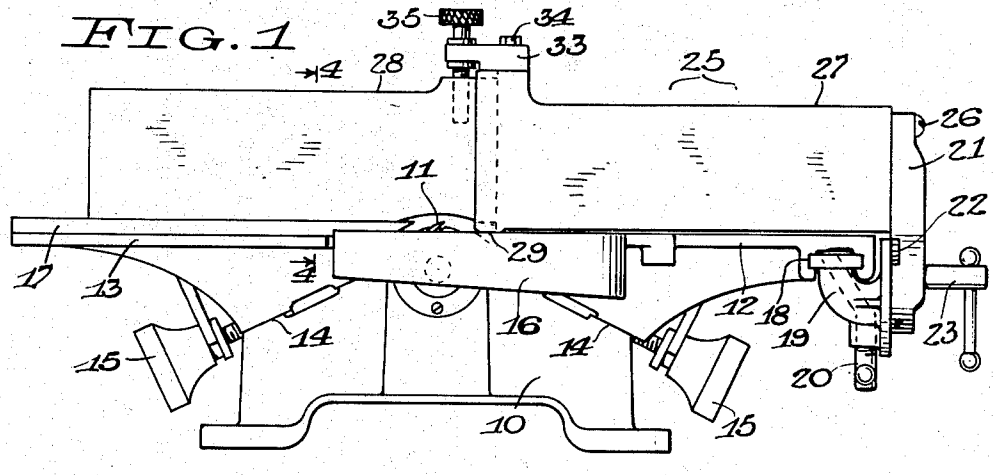


FIG. 2

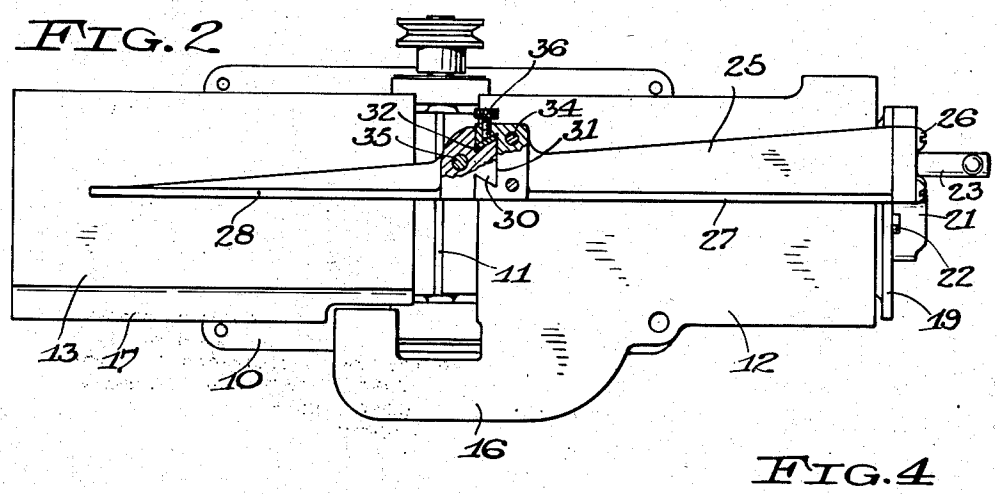


FIG. 3

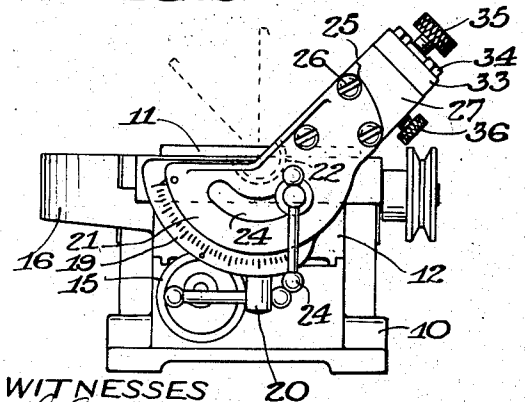
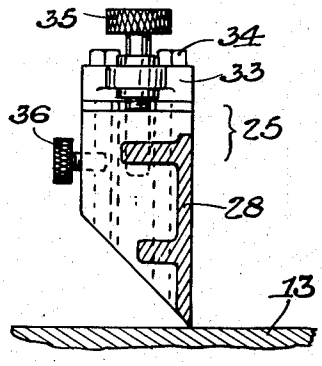


FIG. 4



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SECTIONAL JOINTER FENCE

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4 Claims. (Cl. 144—253)

The invention relates to jointers and more particularly to jointer fences.

An object of the invention is to provide a jointer fence which is so constructed that the lower edge thereof can be kept close to the front and rear tables of a jointer regardless of the relative adjustment of the tables for regulating the depth of cut.

Another object of the invention is to provide a jointer fence of this character capable of being mounted on the adjustable front table of the jointer.

The invention further consists in the several features hereinafter described and claimed.

In the accompanying drawing illustrating one embodiment of the invention,

Fig. 1 is a side elevation of a jointer having a fence constructed in accordance with the invention;

Fig. 2 is a top plan view of the jointer, parts of the fence being broken away and parts being shown in section;

Fig. 3 is a front elevation of the jointer, the fence being shown in full lines in one of its angular positions, and two other angular positions of the fence being indicated in dotted lines, and

Fig. 4 is a detail sectional view taken on the line 4—4 of Fig. 1.

In the drawing, 10 designates a jointer base having bearings in which is journaled a cutter-head 11 driven in any suitable manner. A front table 12 and a rear table 13 are slidably mounted on the usual inclined ways 14 formed on the base 10, so as to be capable of raising and lowering with respect to the cutter-head. The tables are independently movable by means of any suitable adjusting means, here shown to include adjusting knobs 15. The front table 12 is formed at one side with a rabbeting arm or ledge 16, and the rear table 13 is formed at the same side with a grooved edge 17 to provide clearance for rabbeted work. One of the tables, preferably the front table, is formed with transversely extending ways 18 extending parallel to the axis of the cutter-head. In the present instance, the ways are formed by an open-ended guide channel which extends along the under side of the table adjacent the front end of the table.

A bracket 19 slidably fits in the ways 18 and is provided with suitable clamping means 20. A sector plate 21 is pivotally mounted on the bracket, as by means o fan arcuate tongue-and-groove connection 22 which defines for the sector plate an axis of angular displacement lying substantially in the plane of the front table top. A suitable clamp 23, passing through an arcuate slot 24 in the sector plate 21, serves to lock the sector plate in angularly adjusted position on the bracket.

A fence, designated generally by 25, extends over the front and rear jointer tables, the front end of the fence being rigidly secured to the sector plate 21, as by screws 26. The fence mounting is generally similar to that shown in my United States Letters Patent No. 1,790,288, issued January 27, 1931. If desired, stop means (not shown) may be provided to facilitate angular positioning of the fence, as in the above patent, and in my United States Letters Patent No. 1,967,791, issued July 24, 1934, and No. 1,975,562, issued October 2, 1934.

In the present instance, the fence 25 comprises a front section 27 and a rear section 28, the front section being secured to the sector plate 21 by the screw 26 and extending over the front jointer table 12. The lower edge of the front section is close to, or in contact with, the front jointer table, and preferably has a lug or heel 29 which is engageable with the front table adjacent the cutter-head. The rear fence section 28 extends over the rear jointer table 13 and has its flat work-guiding face aligned with the similar face of the front fence section.

The front and rear fence sections are adjustably connected to permit the rear section to be raised and lowered with respect to the front section. By way of illustration, the rear section is provided at its front end with a dovetail tongue 30 slidably fitting in a dovetail groove 31 formed in the rear end of the front section, a clamping plate 32 being placed in the groove. The groove extends transversely of the front section and in a direction parallel to the work-guiding face of the fence. An arm 33 is secured on the front fence section, as by screws 34, and carries a thumb screw 35 which is threaded into the rear fence section for raising and lowering the rear section. A thumb screw 36 is threaded into the front fence section to engage the clamping plate 32 and thus lock the rear fence section in its adjusted position. At the joint between the fence sections, the work-guiding faces of the sections are maintained in flush relation.

When the jointer is to be used, the fence 25 and its bracket 21 is shifted across the table to the desired position, the bracket being locked in its adjustment by the clamping means 20. The fence is swung to the desired angular position and is locked in adjusted position by the clamping means 23. For light cutting the front table is

elevated to the desired position, which raises the rear fence section above the rear jointer table. The rear fence section is then lowered by the thumb screw 35 to bring the lower edge of this fence section close to, or in contact with, the rear jointer table, and is clamped by the thumb screw 36, so that when the work is passed over the tables and pressed against the fence sections, it will be adequately supported by the rear fence section, even in the case of thin work. When the jointer is to be adjusted for a heavier cut, the rear fence section is raised before the front table is lowered, and this fence section is then readjusted, if necessary, to bring the lower edge thereof close to, or in contact with, the rear table.

What I claim as new and desire to secure by Letters Patent is:

1. The combination, with a jointer having relatively adjustable front and rear tables, of a fence for said jointer having adjustably connected front and rear sections extending over said respective tables, said fence sections being relatively movable in a transverse direction parallel to the face of the fence for placing the lower edges of said sections close to the respective tables.

2. The combination, with a jointer having relatively adjustable front and rear tables, of a fence for said jointer having a mounting on said front table and having an adjustably connected rear section extending over said rear table, said rear fence section being movable in a transverse direction parallel to the face of the fence for placing the lower edge of said section close to the rear table.

3. A jointer fence having front and rear sections to extend over the front and rear tables of a jointer, said sections being in slidable engagement and having interfitting relatively movable parts extending transversely of the fence parallel to the work-guiding face of the fence for placing the lower edges of said fence sections close to the respective tables.

4. A jointer fence having front and rear sections to extend over the front and rear tables of a jointer, said sections being slidably connected for transverse relative movement parallel to the work-guiding face of the fence, and screw means for adjusting one of said fence sections with respect to the other to bring the lower edge of the former close to the adjacent jointer table.

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