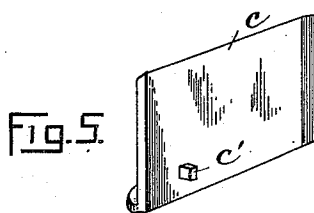
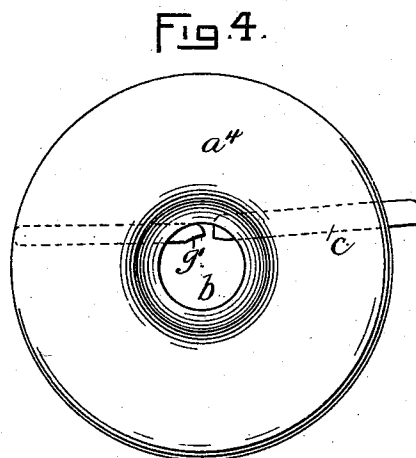
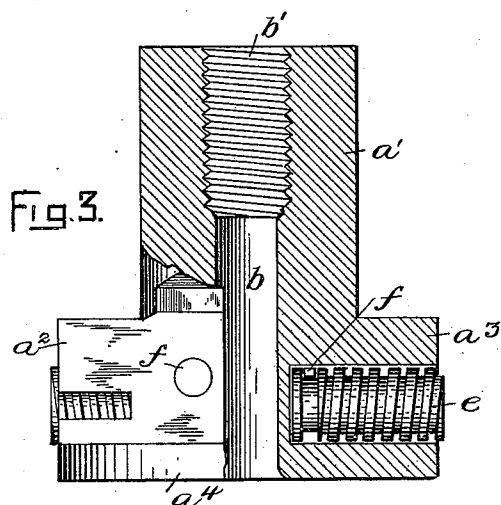
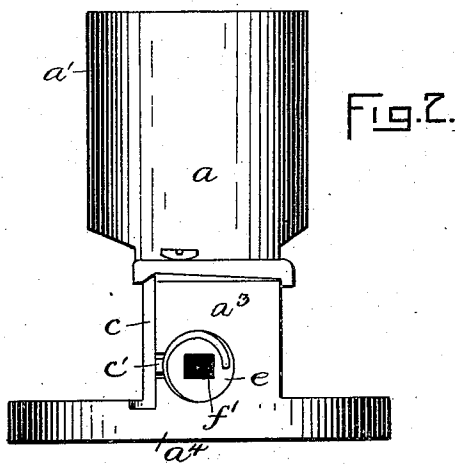
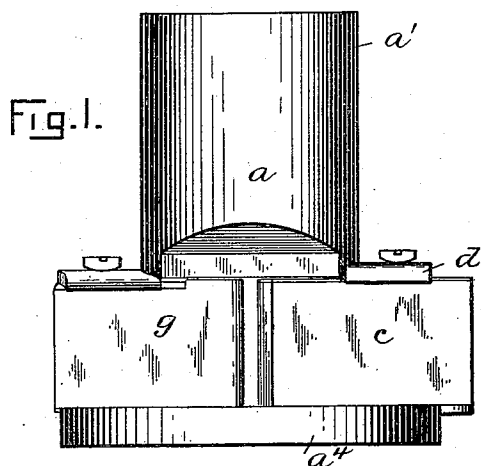


(No Model.)

T. NICHOLS.
DOWEL CUTTER.

No. 553,624.

Patented Jan. 28, 1896.



Witnesses:
Matthew C. Allen
John R. Snow

Inventor,
Thomas Nichols
By *his attorneys*
Magnader & Beach
his attorneys.

UNITED STATES PATENT OFFICE.

THOMAS NICHOLS, OF TEMPLETON, MASSACHUSETTS, ASSIGNOR TO GILMAN WAITE, OF SAME PLACE.

DOWEL-CUTTER.

SPECIFICATION forming part of Letters Patent No. 553,624, dated January 28, 1896.

Application filed September 16, 1892. Serial No. 446,064. (No model.)

To all whom it may concern:

Be it known that I, THOMAS NICHOLS, of Templeton, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Dowel-Cutters, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of my improved
10 dowel-cutter; Fig. 2, another side view looking at right angles to Fig. 1; Fig. 3, a view, partly in section and partly in elevation, with the guard and its clamp removed; Fig. 4, a bottom view; and Fig. 5, a detail, in perspective, of the knife.

My invention relates to dowel-cutters with adjustable knife or guide blades; and the main feature of my invention consists in an improvement which permits a simple and accurate adjustment of the blades.

In the drawings, *a* represents a chuck which in the form shown consists of the cylindrical portion *a'*, the lateral extensions *a²* *a³* and the disk *a⁴*, through which is the passage *b*, screw-threaded at *b'* to be fitted upon a suitable hollow arbor. (Not shown.) The knife-blade *c* is supported by the extension *a³* and the clamp *d* secured upon the extension, and lies in a groove in the inner face of disk *a⁴*, as shown
30 in Fig. 2. Extension *a³* is cored out and receives the threaded spindle *e*, which is held

against lateral movement by the plug *f*, Fig. 3, and is provided on its outer extremity with a device, as the squared hole *f'*, to be manipulated by a key or the like.

Knife-blade *c* has a fixed stud *c'*, Figs. 2 and 5, which engages the threads of spindle *e*, so that rotation of the spindle will move the knife-blade toward and from the axis of the chuck *a*.

The guide *g* is a blade adjustable in the same manner as the knife, but has a rounded surface *g'* upon its inner end, and may be adjusted to contract the size of passage *b* for the purpose of cutting smaller dowels.

To adjust either blade, the clamp *d* is loosened and the screw *e* turned, after which the clamp is tightened, holding the blade firmly.

I claim—

In a dowel cutter in combination a hollow
chuck; a lateral extension on the chuck; a
blade; a projection from the blade; a threaded
spindle mounted in the lateral projection free
to rotate but prevented from movement end-
wise and engaging with the projection from
the blade and a clamp to engage with one edge
of the blade substantially as and for the purpose specified.

THOMAS NICHOLS.

Witnesses:

H. G. KIRCHNER,
Q. P. LEWIS.