F. J. LILAK.

AUGER GAGE.

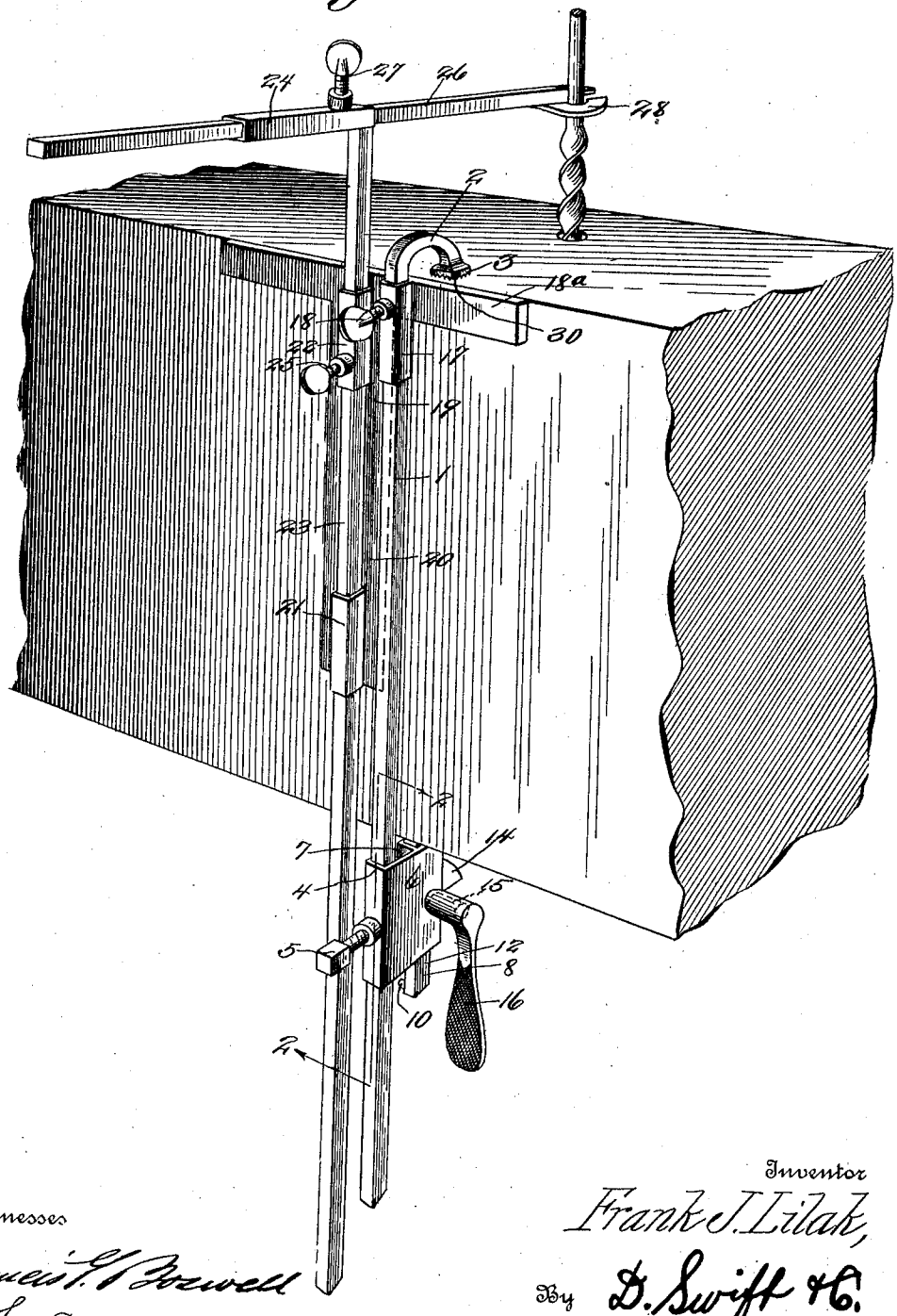
APPLICATION FILED APR. 29, 1911.

1,002,715.

Patented Sept. 5, 1911.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

Frances T. Boswell

L. Dunn

Inventor

Frank J. Lilak,

By D. Swift & Co.

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

F. J. LILAK.

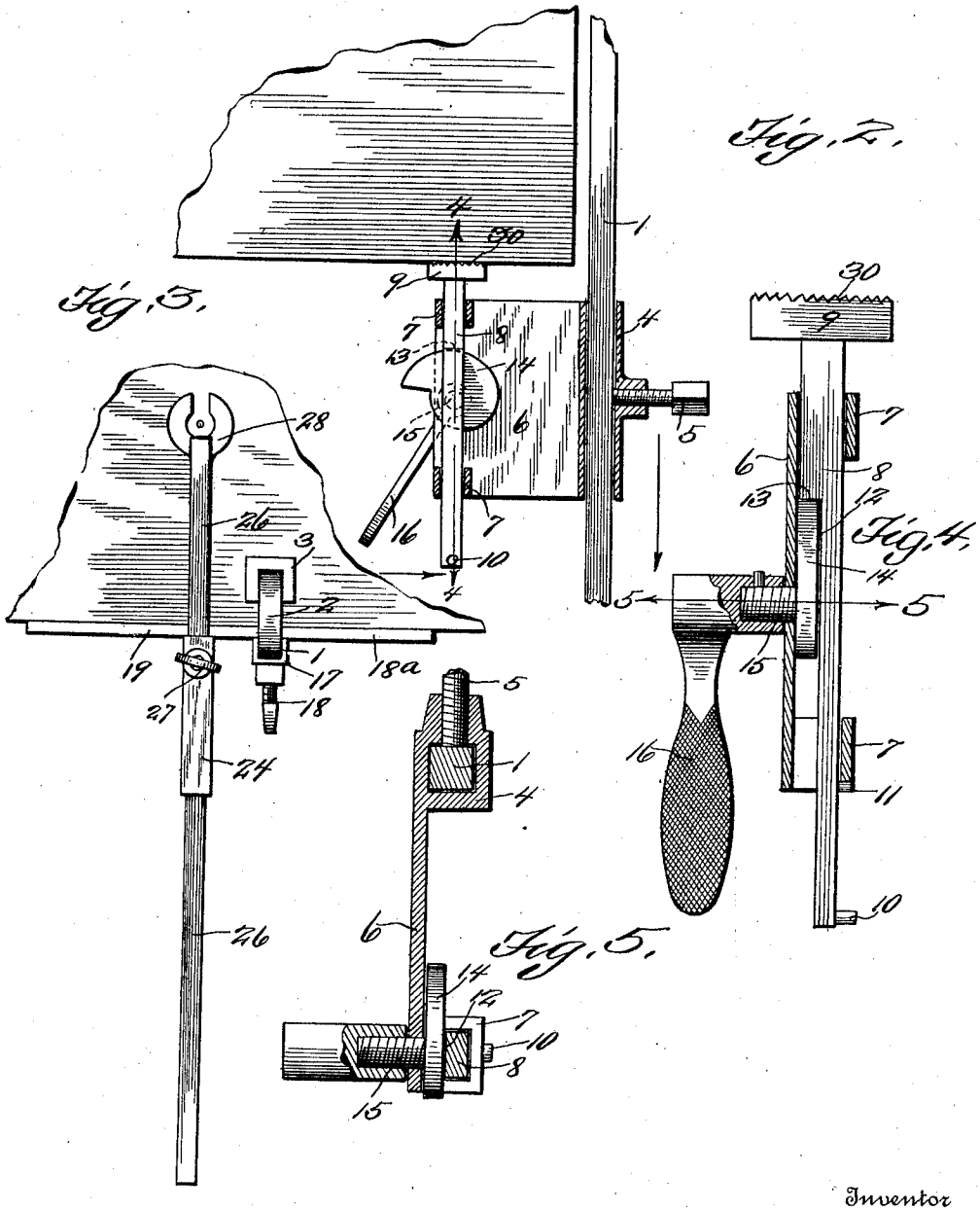
AUGER GAGE.

APPLICATION FILED APR. 29, 1911.

1,002,715.

Patented Sept. 5, 1911.

2 SHEETS—SHEET 2.



Witnesses

Frances G. Boswell.

L. Dunn

Inventor

Frank J. Lilak,

By D. Swift & C.

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK J. LILAK, OF WILSON, KANSAS.

AUGER-GAGE.

1,002,715. Specification of Letters Patent. **Patented Sept. 5, 1911.**

Application filed April 29, 1911. Serial No. 624,179.

To all whom it may concern:

Be it known that I, FRANK J. LILAK, a citizen of the United States, residing at Wilson, in the county of Ellsworth and State of Kansas, have invented a new and useful Auger-Gage; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention pertains to a new and useful device for facilitating the boring or drilling of holes in timbers.

The invention in its broadest aspect aims as the main object to provide a device of this character, by which holes of various depths may be more accurately bored or drilled.

A further object of the invention is to provide means for steadying and guiding the auger while in action.

In the drawings, however, there is only one form of the present invention disclosed, but in practical fields, this form may require alterations, to which the applicant is entitled, provided the alterations are comprehended by the appended claims.

The invention comprises further features and combinations of parts, as hereinafter set forth, shown in the drawings, and claimed.

In the drawings:—Figure 1 is a view in perspective, showing the device clamped on a piece of timber, and showing the auger in the act of boring or drilling a hole. Fig. 2 is a sectional view on line 2—2 of Fig. 1. Fig. 3 is a plan view of the device. Fig. 4 is a sectional view on line 4—4 of Fig. 2. Fig. 5 is a sectional view on line 5—5 of Fig. 4.

Referring more particularly to the drawings, 1 designates a rod, which is rectangular or square in cross section, as shown. The upper end of the rod 1 terminates into a semi-circular curved portion 2, as shown, which curved portion is formed with a foot 3, designed to engage the upper face of the timber, in the manner shown in Fig. 1. Slidable upon the rod 1 is a sleeve 4, through which a thumb bolt 5 is threaded, so as to engage the rod 1, whereby the sleeve may be held in various adjusted positions on the rod. Projecting laterally of the sleeve 4 is an extension 6. Projecting from one face of the extension 6, and substantially from its upper and lower ends, are loops 7, which are rectangular in cross section. Slidably arranged in the loops 7 is the leg 8 of the shoe 9. This shoe 9 engages under the timber which is to be drilled or bored. Projecting laterally of the leg of the shoe is a lug 10, adapted to engage a recess 11 of the lower rectangular loop of the extension 6, in order to limit the upward movement of the shoe and its leg. This leg is provided with a cut-away portion 12, in order to provide the shoulder 13, which is engaged by the periphery of the cam 14. The cut-away portion not only provides for the shoulder, but it also accommodates the cam, which moves adjacent one face of the extension 6. This cam is movable with the stub shaft 15, which is mounted in the extension 6. Also movable with the stub shaft is a lever 16, by which the cam may be manipulated, for the purpose of raising and lowering the shoe and its leg. Also slidably arranged upon the rod 1 is an additional sleeve 17, through an enlargement of which a thumb screw 18 is threaded, in order to engage said rod 1, thus providing means for holding the sleeve in various adjusted positions on the rod 1.

Soldered, or otherwise fixed, to the sleeve 17 is one arm 18^a of the T-square 19, the vertical arm 20 of which is provided with fixed sleeves 21 and 22. Extending slidably through the sleeves 21 and 22 is a vertically arranged rod 23, which terminates at its upper end into substantially a horizontal sleeve 24, the purpose of which will hereinafter appear. Threaded through the sleeve 22 is a thumb screw 25, by which the rod 23 may be held in adjusted position. This thumb screw 25 not only holds the rod in adjusted position, but it also holds the T-square in adjusted positions on the rod 23. However, when the T-square is bodily adjusted, by raising the loop of the arm 18^a on the rod 1, the rod 23 is moved with it. Arranged slidably within the sleeve 24 is a rod 26, and threaded through the sleeve 24 is a thumb screw 27 for engaging the rod 26, whereby the same may be held in adjusted position. The rod 26 extends substantially at right angles to the rod 23, as shown in the drawings. One end of the rod 26 terminates into a forked member 28, in the crotch of which the auger shank is adapted to be arranged, when boring or drilling a hole in the timber, as shown in Fig. 1.

When it is desired to accurately bore or drill a hole in a piece of timber, the device is arranged in the manner shown in Fig. 1. To adjust the device, as shown in Fig. 1, the

foot at the upper end is disposed in engagement with the upper face of the timber, after which the extension 6, with its sleeve, is moved upwardly, until the foot carried by the extension engages the under face of the timber. After the device is so far adjusted, the cam may be manipulated by its lever, so as to force the foot of the extension 6 closely against the under face of the timber, thus binding the timber between the two feet, the serrations 30 upon the feet constituting means for obviating movement of the device. Prior to adjusting the feet, however, the T-square is moved vertically, until its horizontal portion is squared or brought flush with the upper face of the timber. After the T-square, and then the feet, are adjusted, the rod 23 is adjusted until the rod 26 is brought adjacent the upper face of the timber, with the forked member in engagement with the timber. The rod 26 is then adjusted horizontally, until the center of the circular portion of the forked member is arranged at the location where it is desired to bore or drill. This location is then marked by the carpenter's pencil, and subsequently, the rod 23 is again adjusted vertically, until the forked member is arranged in position to engage the shank of the auger, as shown in Fig. 1, thus constituting means for guiding the auger as the auger-bit enters the timber. As the auger-bit penetrates the timber, the rod 23 is manually lowered. By this apparatus, it will be observed that a plurality of pieces of timber may be bored or drilled at the same time, that is, by laying the pieces of timber one upon the other, and clamping them between the two feet of the rod 1.

The invention having been set forth, what is claimed as new and useful is:—

1. In combination, a rod having a fixed foot at one end and an additional foot mounted thereon, the additional foot having means slidably connecting the same to the rod, means including means for secondarily adjusting the additional foot, a T-square adjustably and slidably mounted on the rod, a second rod adjustably connected to the T-square and arranged parallel to the first rod, a horizontally adjustable member carried by the second rod, the horizontal adjustable member having means by which the location of a hole may be properly indicated on a piece of timber.

2. In combination, a rod having a fixed foot at one end and an additional foot mounted thereon, the additional foot having means slidably connecting the same to the rod, means including means for secondarily adjusting the additional foot, a T-square adjustably and slidably mounted on the rod, a second rod adjustably connected to the T-square and arranged parallel to the first rod, a horizontally adjustable member, carried by the upper end of the second rod, the horizontally adjustable member having means by which the location of a hole may be properly indicated on a piece of timber, said last named means constituting a medium whereby an auger may be guided, as it penetrates the timber.

3. In combination, a rod having a fixed foot at one end and an additional foot mounted thereon, means for slidably connecting the additional foot to the rod, a T-square adjustably and slidably mounted on the rod, a second rod adjustably connected to the T-square and arranged parallel to the first rod, a horizontally adjustable member carried by the upper end of the rod, the horizontally adjustable member having means by which the location of a hole may be properly indicated on a piece of timber, the means of the horizontally adjustable member constituting a medium whereby an auger may be guided, as it penetrates the timber.

4. In combination, a rod having a fixed foot at one end and an additional foot mounted thereon, means for slidably connecting the additional foot to the rod, said means including means for secondarily adjusting the additional foot, a T-square adjustably and slidably mounted on the rod, a second rod adjustably connected to the T-square and arranged parallel to the first rod, a horizontally adjustable member carried by the upper end of the second rod, the horizontally adjustable member having means by which the location of a hole may be properly indicated on a piece of timber, the means of the horizontally adjustable member constituting a medium whereby an auger may be guided, as it penetrates the timber, the means for slidably connecting the additional foot having a thumb screw to engage the first rod, the T-square having sleeves provided with thumb screws to engage the first and second rods, the second rod having a sleeve through which the horizontally adjustable rod passes, the sleeve of the second rod having means to hold the horizontally adjustable rod adjusted.

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

FRANK J. LILAK.

Witnesses:
U. VANIS,
J. H. GAAREY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."