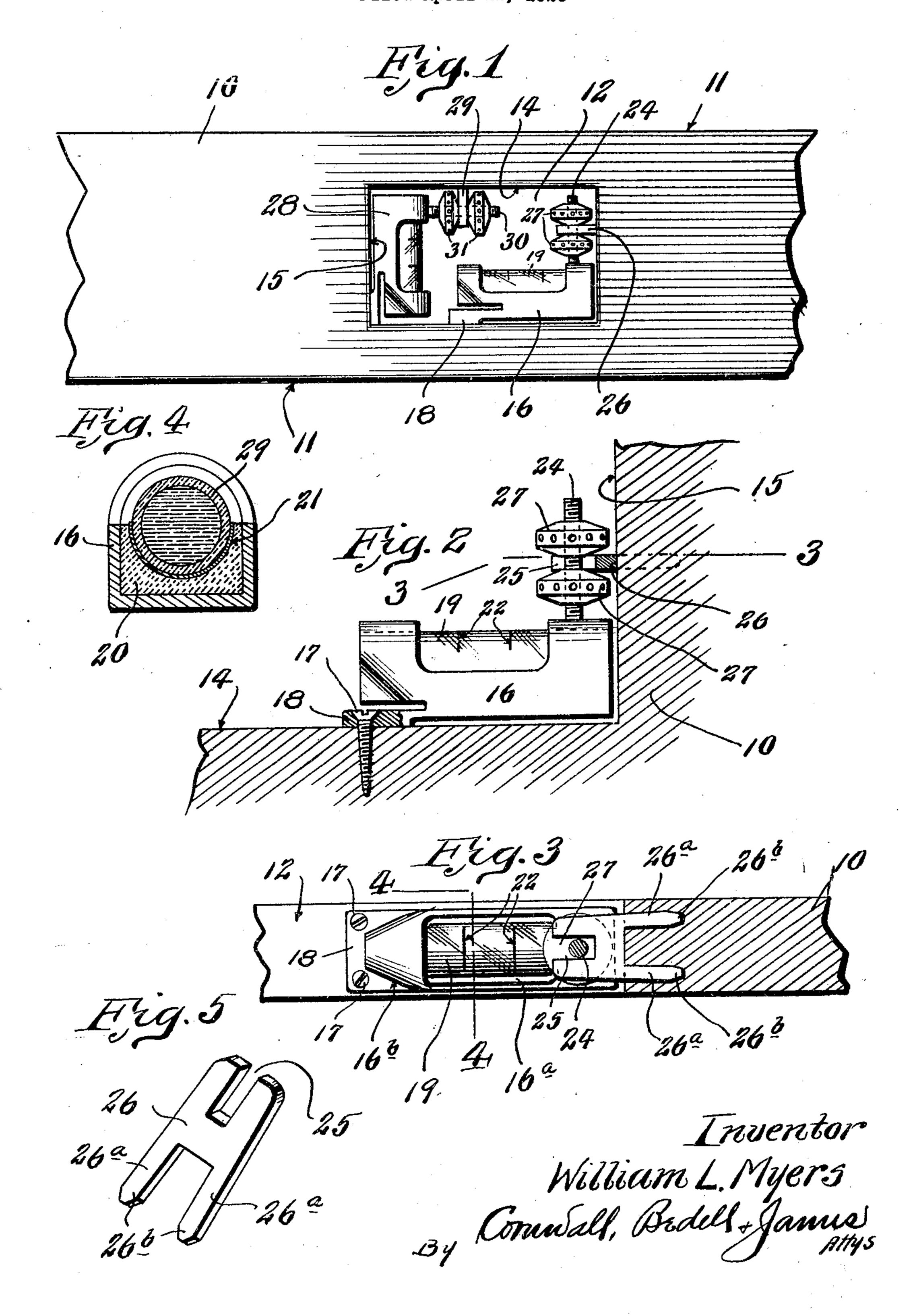
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CARPENTER'S LEVEL

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## UNITED STATES PATENT OFFICE.

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CARPENTER'S LEVEL.

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This invention relates to new and useful shape in cross section as shown in Figure 4 tion work.

invention consists in certain novel features in position in opening 12. of construction and arrangement of parts, The opposite or forward end of tube carhereinafter more fully described and claimed, rier 16 has extending therefrom and trans- 80 25 and illustrated in the accompanying draw-versely thereof a threaded shank 24 which ings, in which—

tached thereto.

line 3—3 of Figure 2.

4—4 of Figure 3.

of the guides.

40 ing drawings, 10 indicates a bar of wood pro- to the device just described, is attached to vided with straight edges 11 and having the opposite transverse wall at right angles formed in its body portion a centrally dis- to the first device and a guide 29 is driven posed rectangular opening 12 having longi- into one of the longitudinal walls of opentudinally disposed walls 14 and transversely ing 12 for receiving threaded shank 30 of 100 45 disposed walls 15. A tube carrier 16 is ar-device 28 and providing bearings for adranged adjacent to one of the longitudinal justing disks 31 screw-seated on said shank. walls 14 and is secured thereto by suitable fas- To attach the device in position, holes are tening devices 17 which pass through aper-drilled in the proper walls of opening 12 for tures formed in a flange or lip 18 and are the reception of fastening devices 17 and an- 105 seated in said bar 10. Lip 18 is formed in- other series of holes is drilled in the respectegral with the rear end of tube carrier 16 tive walls for receiving the legs of guide and the outer face of said lip is offset out-members 26 and 29. These guide members wardly with respect to the corresponding face are now placed in position and can be forced of tube carrier 16 in order to space the latter home by hammering the inner ends of said 110

improvements in carpenters' levels and has and is provided with a sight opening 16<sup>a</sup> for its object the provision of a simple and through which is exposed the upper portion inexpensive device which can be readily at of a spirit tube 19 which is embedded in suit- 60 5 tached to and detached from a straight edge able material 20, such as plaster paris, which bar such as is used by carpenters in construc- is placed in said tube carrier in plastic form. The lower portion of the tube 19 or that por-Further objects of my invention are to pro-tion which is embedded in the material 20 vide spirit level devices which can be easily is provided with a coating of reflecting ma- 65 10 attached at right angles to each other to the terial 21 which reflects the light and assists respective walls of a rectangular opening in reading the tube. This tube is provided formed in a straight bar of wood which it is with suitable marks 22 and the liquid conintended to use as a straight edge and to pro-tained in said tube contains an air bubble vide suitable guide members adapted to be which cooperates with said marks to indicate 70 driven in position in said opening in appro- the level. The rear end of tube carrier 16 priate relations to the respective level devices is crimped or tapered outwardly as indicated for receiving the threaded shanks of said de- at 16<sup>b</sup> in order to provide suitable clearance vices and provide suitable stationary mounts and permit insertion of fastening devices 17 for receiving the thrusts of the adjusting in the apertures of lip 18 and provide clear- 75 20 disks threaded on said shanks.

ance space so that a suitable tool can be ap-With these and other objects in view my plied to said fastening devices to attach them

passes through a slot 25 formed in a guide 26 Figure 1 is a fragmental plan view of a which is stationarily attached to the approstraight edge bar with the level devices at-priate transverse wall 15 and provides a stationary bearing for adjusting disks 27 which 85 Figure 2 is a horizontal cross section taken—are threaded on shank 24 and bear against the through a portion of said bar and showing opposite sides of member 26. Guide 26 is one of said level devices attached thereto. provided with legs 26° which slightly diverge Figure 3 is a cross sectional view taken on outwardly and are adapted to be driven in suitable bores formed in said transverse wall. 90 Figure 4 is an enlarged view taken on line The ends of said legs are preferably beveled as indicated at 26<sup>b</sup> to facilitate the insertion Figure 5 is a perspective detail view of one and attachment of said guide 26 in position in opening 12.

Referring by numerals to the accompany- A level device 28, similar in construction 95

from the longitudinal wall 14.

Tube carrier 16 is preferably formed U- divergent outwardly in order to conform to

the inclination of the bores drilled for the due to the restricted size of opening 12.

spirit tube improves the visibility of the leveling marks and increase the usefulness of 10 in position at the most advantageous points with respect to its longitudinal axis. and the provision of separate guides provides 2. In a device of the class described, the 20 carrier and the spirit tube carried thereby rectangular opening, fastening devices enwith relation to said bar.

I claim:

25 a rectangular opening, a tube carrier ar- to the opposite end of said tube carrier for ranged in said opening and provided with a adjusting the latter angularly relative to its sight opening, a spirit tube arranged in said longitudinal axis, and a guide member slotcarrier and visible through said sight open-ted at one end for receiving and cooperating ing, an attaching lip formed integral with with said adjusting means and provided with 65 30 one end of said carrier and disposed longi- outwardly divergent legs driven in a wall of tudinally relative thereto, said lip being off- said opening at right angles to the first-menset laterally and outwardly from said tube tioned wall for supporting said guide memcarrier and secured to one of the walls of said ber in operative position. rectangular openings for spacing said carrier 35 throughout its entire length from said wall, signature this 17th day of April, 1925. a threaded shank fixed to and extending

transversely from the opposite end of said reception of same since said bores cannot altube carrier, a bifurcated guide for receiving ways be formed in parallelism with the bar said shank and provided with prongs driven into a wall of said rectangular opening at 40 The silvered or reflecting surface of the right angles to the first mentioned wall for supporting said guide in alignment with said shank, and disks screw-seated on said shank the device. By forming the level devices bearing on the opposite sides of said guide separate from each other they can be secured for adjusting said tube carrier angularly 45

a readily replaceable stationary means for combination with a straight edge bar procooperating with the adjusting disks. When vided with a rectangular opening, of a tube the devices are attached in position, the bar carrier arranged in said opening adjacent to 50 15 is tested and the adjusting disks are regu- one of the walls thereof, a longitudinally dislating to bring the air bubble in proper rela-posed pad formed integral with one end of tion with the marks 22. This is done by re-said tube carrier and having its attaching leasing one of the disks 27 and tightening face offset outwardly relative to said tube the other disk, thereby adjusting the tube carrier and secured to one of the walls of said 55 gaging said pad for securing said tube carrier to said wall, the respective end of said 1. In a device of the class described, the tube carrier having tapered sides to provide combination of a straight edge provided with access to said pad, adjusting means attached 60

In testimony whereof I hereunto affix my 70

WILLIAM L. MYERS.