March 1, 1932. W. CHALUPNY 1,848,003

LEVEL

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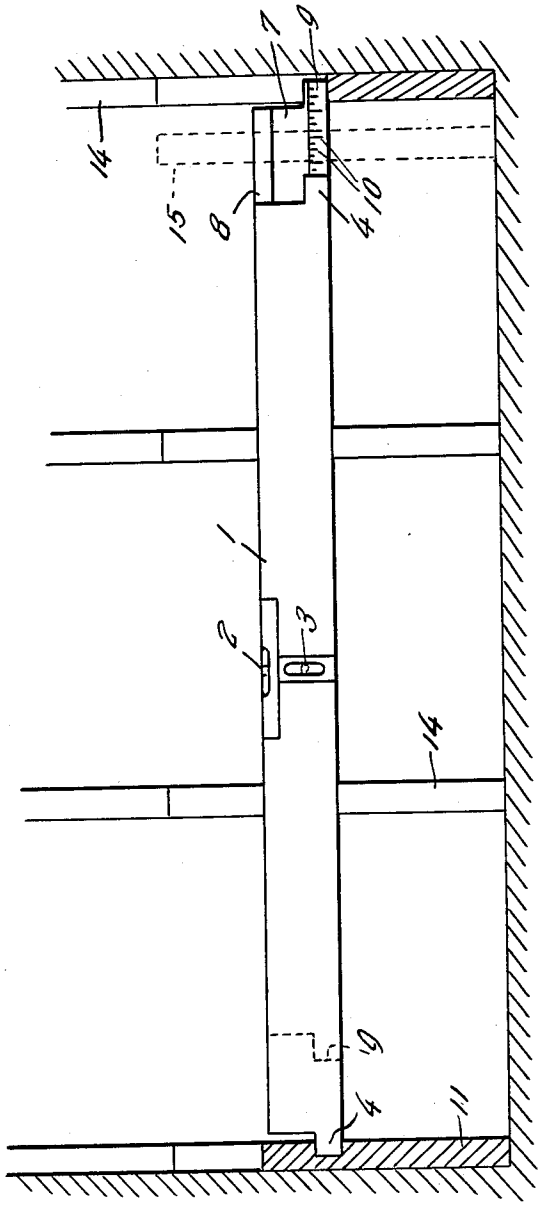


Fig. 1.

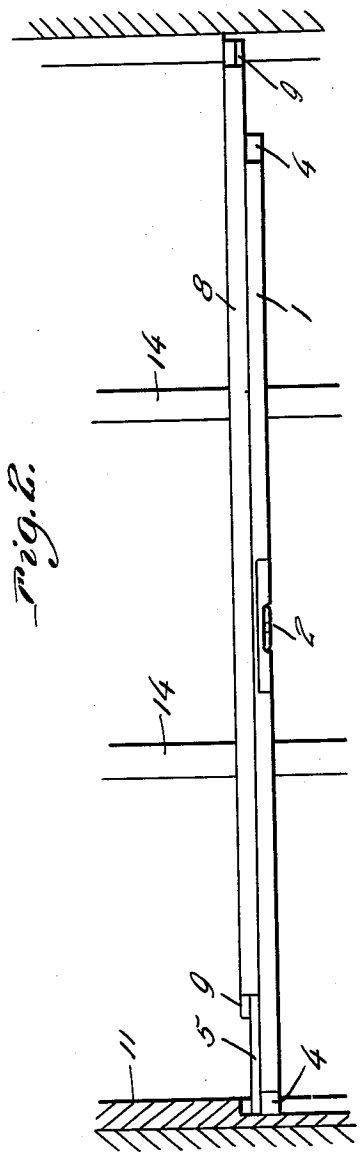


Fig. 2.

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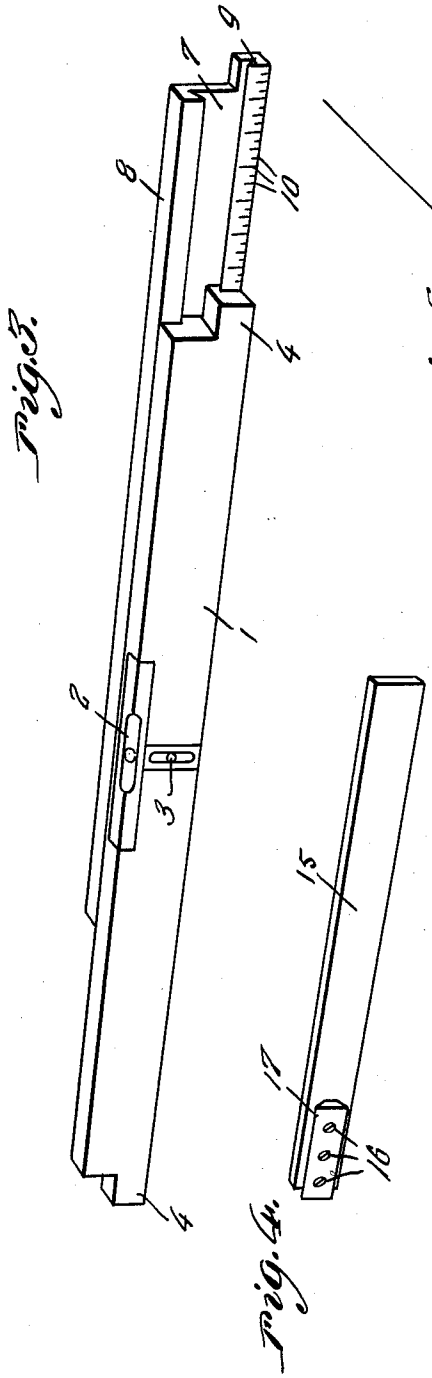


Fig. 3.

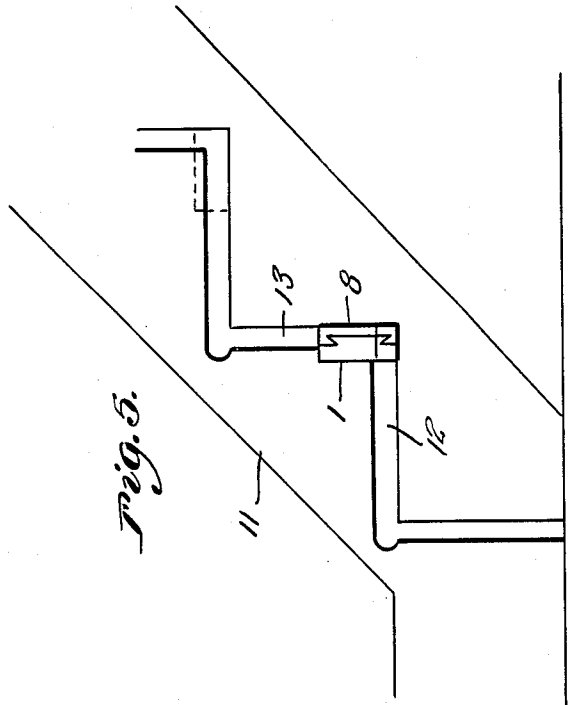


Fig. 5.

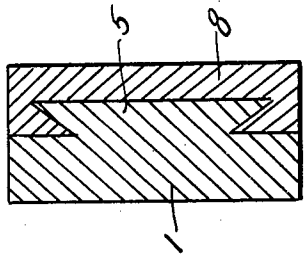


Fig. 6.

Fig. 4.

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UNITED STATES PATENT OFFICE

WILLIAM CHALUPNY, OF ST. LOUIS, MISSOURI

LEVEL

Application filed April 9, 1930. Serial No. 442,941.

This invention relates to new and useful improvements in levels and more particularly to a device of this character which is especially adapted for use by carpenters to facilitate the building of stairs, but it is to be understood that a level in accordance with this invention may be utilized for any purpose for which the same is found adapted and desirable.

The primary object of the invention is to provide, in a manner as hereinafter set forth, a level of the aforementioned character embodying extensible means whereby the same may be expeditiously adjusted for use in constructing stairs of various widths.

Other objects of the invention are to provide a level of the character described which will be simple in construction, strong, durable, efficient in its use and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention may become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a view in front elevation showing a level constructed in accordance with this invention mounted in operative position on a wall stringer and a plurality of carriages of the stairs to be constructed.

Figure 2 is a top plan view thereof.

Figure 3 is a perspective view of the device.

Figure 4 is a detail view in perspective of a straight edge having a dove-tail key mounted thereon for mounting on the level for use on certain occasions.

Figure 5 is a view in end elevation of the level showing the same in position on the wall stringer and the carriages.

Figure 6 is a cross sectional view through the level.

Referring to the drawings in detail, it will be seen that the reference character 1 designates an elongated bar having the bubble tube 2 mounted centrally thereon and a plumb 3 of conventional construction mounted on the front side of said bar in the usual manner. The opposite ends of the bar 1 are reduced to provide integral projections 4.

The side of the bar 1 opposite to that upon which the plumb 3 is observed has formed thereon a longitudinally extending integral dove-tail key 5 which is adapted to be slidably disposed in the dove-tail channel 7 provided in the opposed face of the extension bar 8. The opposite ends of the extension bar 8 are reduced in a manner to provide integral protuberances 9 and, as clearly illustrated in Figure 3 of the drawings, the inner side of the extension bar 8 is provided on its lower portion with the graduations 10.

The reference numeral 11 in the drawings designates a wall stringer and formed therein is the step cut-out or channel 12 (see Figure 5) and the riser cut-out or channel 13. The reference numeral 14 designates a plurality of spaced, parallel, carriages having the usual step and riser cuts therein. As clearly seen in Figures 1, 2 and 5 of the drawings, the protuberance 4 on the adjacent end of the level bar 1 is adapted to be disposed in the inner end of the step cut-out 12 of the wall stringer 11, said protuberance abutting the inner end of said cut-out. The other end of extension bar 8 is then adjusted to the desired position, this being readily determined by the graduations 10 thereon and a measuring rule illustrated in dotted lines in Figure 1 and designated by the reference numeral 15 is utilized to place this end of the device at the elevation at which the first step cut in the carriage 14 is to be. This is ascertained by placing the rule adjacent the point where the carriage is to rest and manipulating the adjacent end of the tool until same is in a true horizontal plane, the height of same from the ground being measured. The outermost carriage is then mounted in place and the adjacent end of the level is disposed on the first step cut thereon, as seen in Figure 1. The outermost carriage 14 is also positioned so that the riser cut is aligned properly with the riser cut in the wall stringer 11. The intermediate carriages 14 are then properly positioned.

The rule or straight edge 15 has mounted

on one end portion thereof, through the medium of the screws 16, a dove-tail key 17 for adjustably mounting same on the bar 1. The key 17 is to be furnished with the level and may be secured to a conventional straight edge for use on certain operations such as exceptionally wide stairs and as a plumb rule for door and window jambs. The straight edge 15 may be of any desired length.

It is believed that the many advantages of a level constructed in accordance with this invention will be readily understood, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that changes in the details of construction may be had which will fall within the scope of the invention as claimed.

What is claimed is:—

A tool of the character described comprising a pair of sections disposed in side abutting relation, one of the sections having a dovetailed groove extending longitudinally from end to end in its inner side, a longitudinal tenon extending from end to end on the inner side of the other section, and slidable in the groove for adjustably connecting the sections together, reduced longitudinal extensions formed integrally on the ends of the sections, their lower edges being flush with the lower edges of said sections, one of the sections having graduations on the lower marginal portion of its inner side extending to the ends of the extensions thereon.

In testimony whereof I affix my signature.

WILLIAM CHALUPNY.