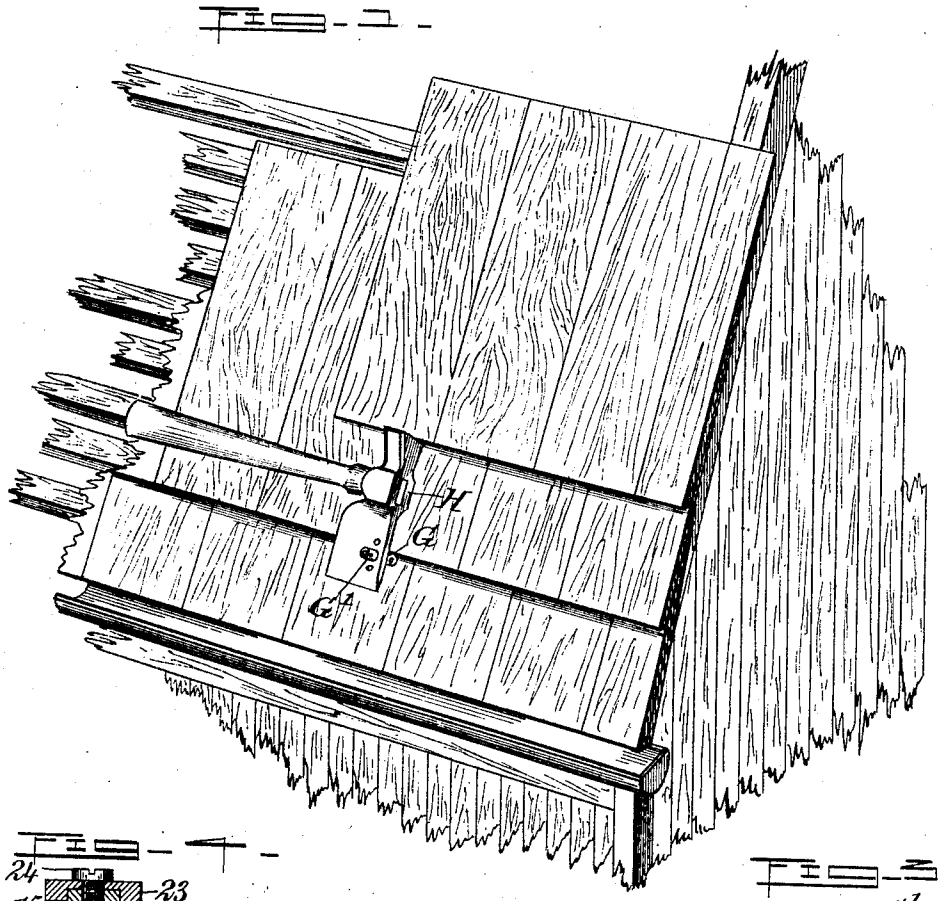
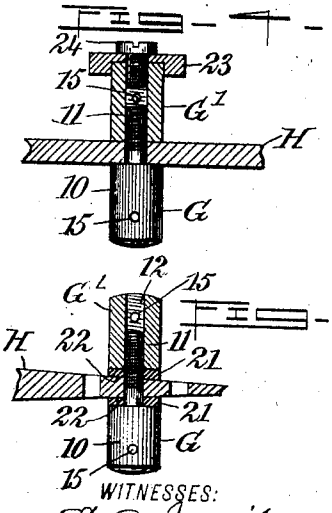
No. 832,962. PATENTED OCT. 9, 1906.

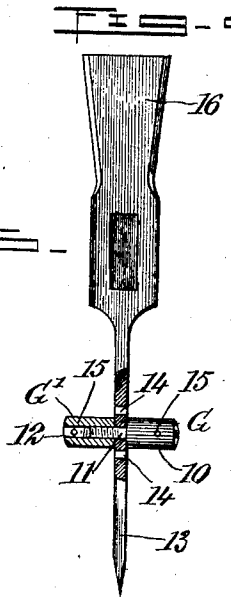
A. D. FELLOWS.

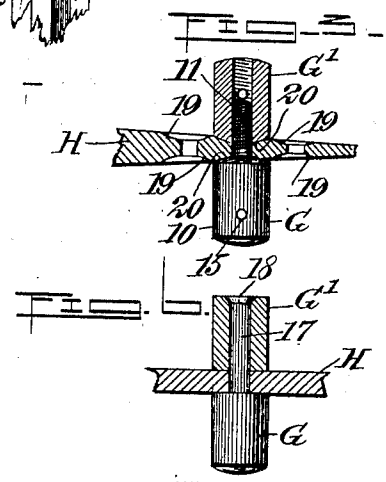
GAGE.

APPLICATION FILED APR. 16, 1904.









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GAGE.

No. 832,962. Specification of Letters Patent. Patented Oct. 9, 1906.

Application filed April 15, 1904. Serial No. 203,300.

To all whom it may concern:

Be it known that I, ALLEN DOUGLAS FELLOWS, a citizen of the United States, and a resident of East Auburn, in the county of Placer and State of California, have invented a new and Improved Gage, of which the following is a full, clear, and exact description.

My invention relates to gages, and more particularly to those adapted for use with shingling-hatchets or similar tools. Its principal objects are to provide a simple and inexpensive device which may be readily attached to the tool.

It consists in the various features and combinations hereinafter described and more particularly claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a portion of a shingled roof in connection with which a hatchet embodying one form of my invention is being employed. Fig. 2 is an end elevation of the hatchet-head with the gage in place, parts being broken away; and Figs. 3, 4, 5, and 6 are sectional details of other forms of my invention.

My improved gage consists, more essentially, of two members G and G′, the first of which includes a cylindrical head 10, from which projects a shank 11, this being shown in Figs. 2, 3, 4, and 5 as threaded. The second member G′ is in the form of an opposite cylindrical head which is of a diameter equal to the head 10 and is provided with a bore 12, here shown as extending completely through it. This bore is threaded for engagement with the shank 11.

To apply the gage to such a tool as a hatchet H, the blade 13 thereof is provided with what is here illustrated as a series of openings 14, each of which is of such a diameter that the unthreaded portion of the gage-shank adjacent to the head may fit snugly therein. The series of openings extends longitudinally of the blade and preferably near its outer edge. To mount the gage upon the blade, its shank is inserted through one of the openings 14 and the opposite head screwed on the shank. The two elements may then be forced into coaction with the blade by inserting a small rod, such as a wire nail, through recesses 15, which extend transversely of each head and are conveniently in the form of openings extending entirely through them. The distance of each opening in the series from the head 16 of the hatchet will be such that the outer surface of the gage-heads will lie at a distance therefrom equal to the space which it is desired the butt of a shingle shall be exposed to the weather, and obviously by moving the gage from one to another of the openings this distance may be varied. If it is preferred that the gage shall be made permanently a part of the hatchet rather than to be separable therefrom, the form of my invention illustrated in Fig. 6 may be employed, in which the shank 17 is unthreaded; but instead, after the opposite head has been placed about it, the shank may be upset at its end 18 to secure the parts together.

In Fig. 3 is shown a portion of a hatchet having a wedge-shaped blade, to which it would be impossible to satisfactorily apply the gage in the form previously described, since the inner faces would not have a proper bearing. To obviate this difficulty, inclined annular surfaces 19 are shown about each side of each of the openings, these producing a cupped depression, which will receive a correspondingly inclined or convex end surface 20 upon each of the gage members. This conformation permits the ends of said members to seat themselves in the depressions in spite of the inclination of the blade and to assume a position vertical to the blade-axis. In Fig. 5 another method of securing the same result is shown, the square ends of the gage being here retained, and washers 21, having inclined faces 22, may coact with the opposite faces of the hatchet-blade, being interposed between them and the heads.

In Fig. 4 the member or head G′ is provided with an enlargement, which is shown as separable, it conveniently consisting of a washer 23, having a depression to receive the end of the head. The washer may be retained in place by a screw 24 engaging the thread in the head-bore and having its head overhanging the washer and forcing it into contact with the gage member. This arrangement allows the securing of a plurality of measurements with a single setting of the gage upon the hatchet-blade, the extension of the enlargement beyond the head being equal to the difference between the amounts of exposure of the shingles. It will be evident that this may be also used in con-

nection with a series of openings, enabling two gagings to be made for each. The space between the openings in the series will of course be correspondingly increased.

The use of my invention will be clear from Fig. 1 of the drawings. A course of shingles being laid, to enable the workman to determine the position of each shingle for the next course it is only necessary for him to place the gage-head against the butt of a laid shingle and position the next shingle by the contact of its butt with the surface of the hatchet-head. If the workman desires to use some other length of exposure of the shingle to the weather, he need only move the gage to one of the other openings.

I claim—

The combination with a shingling-tool having an unthreaded opening therein, of a gage, consisting of a head having a threaded shank projecting through the opening of the tool, a second head having a bore extending entirely through it and threaded, said head screwing on the shank of the first head, a washer having a depression to receive the outer end of the second head, and a screw passing through the washer into the threaded bore of the said head.

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

ALLEN DOUGLAS FELLOWS.

Witnesses:

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J. H. BRESLIN.