J. C. JOHNSON.

CLAMP.

APPLICATION FILED DEC. 17, 1912.

1,067,121.

Patented July 8, 1913.

3 SHEETS—SHEET 1.

Fig. 4

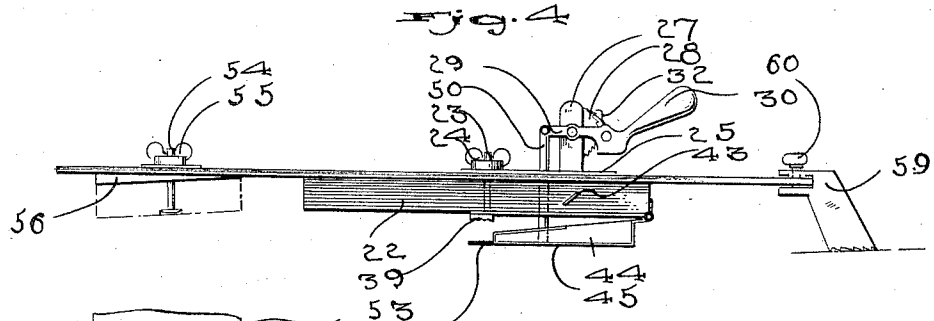


Fig. 5

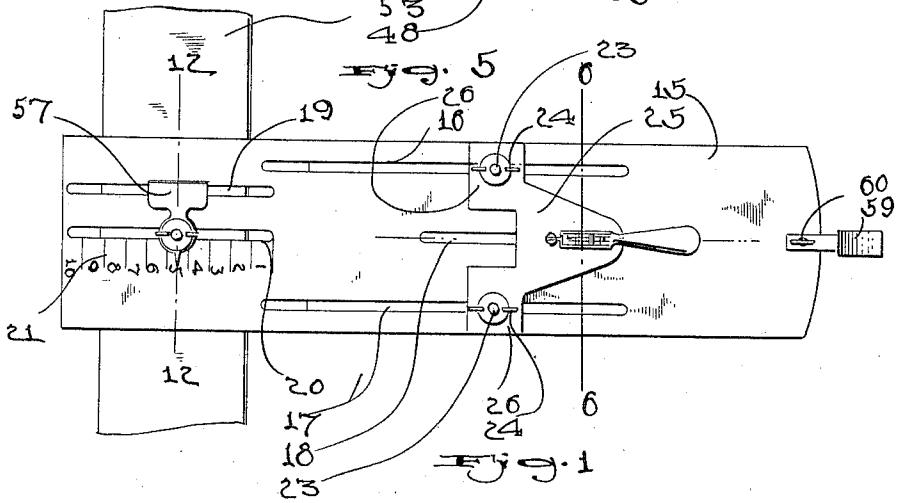
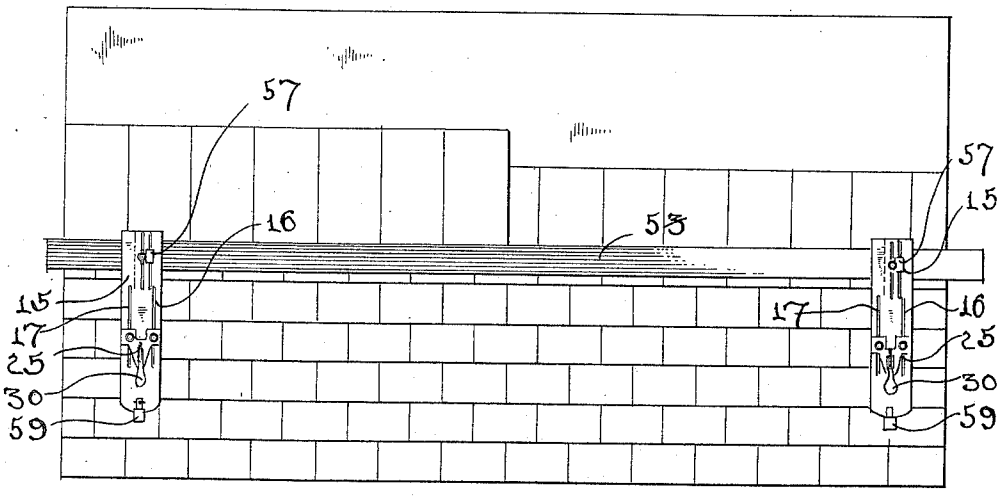


Fig. 1



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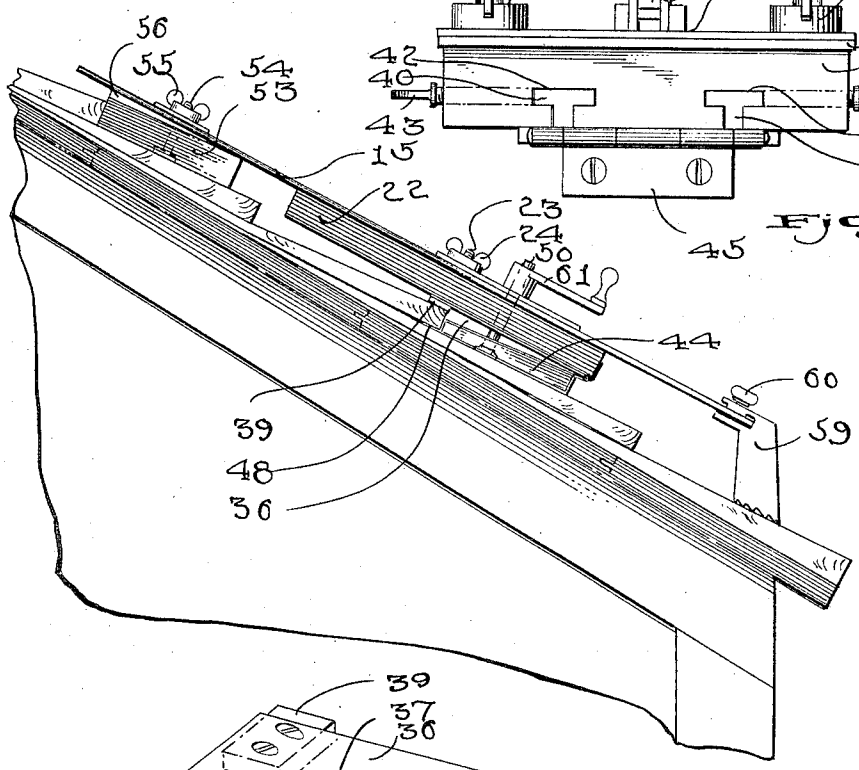
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3 SHEETS—SHEET 2.

Fig. 3.



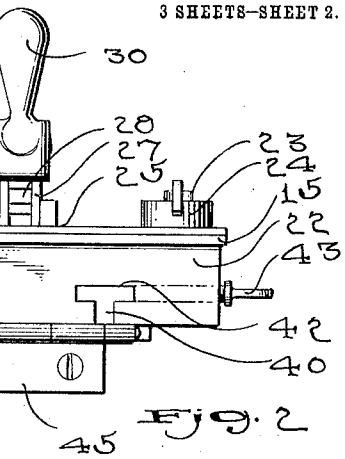


Fig. 2

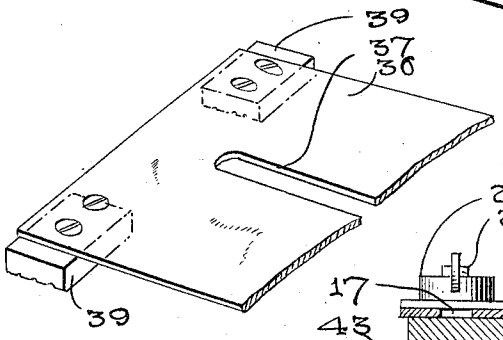


Fig. 11.

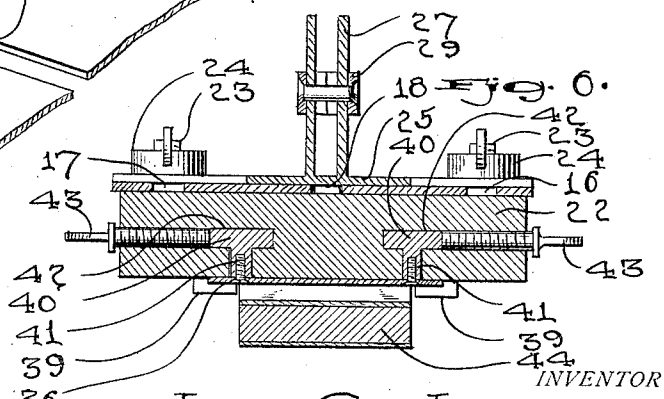


Fig. 6.

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3 SHEETS—SHEET 3.

Fig. 12

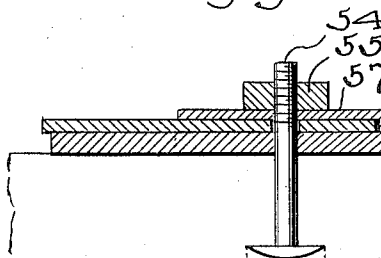


Fig. 8.

Fig. 7.

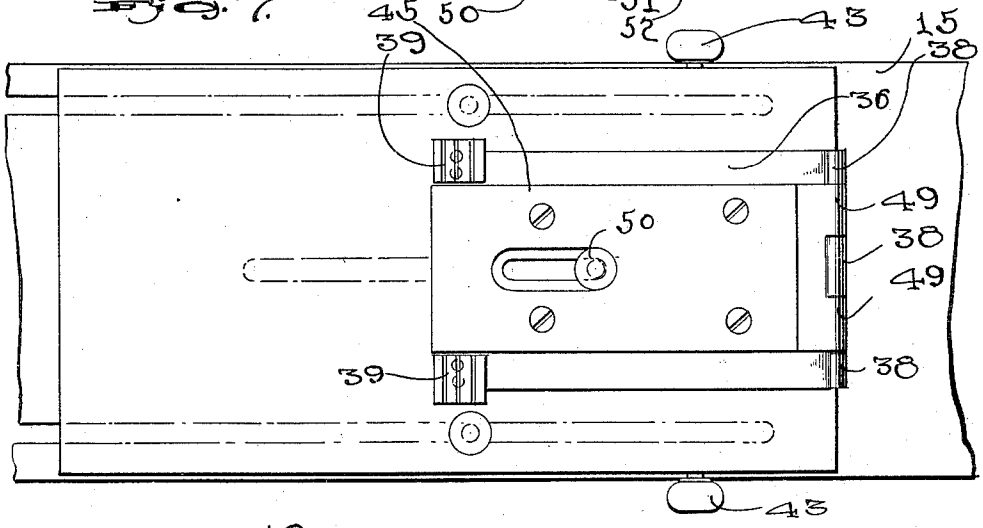


Fig. 10.

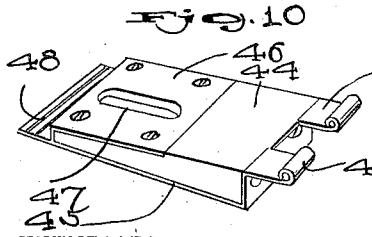
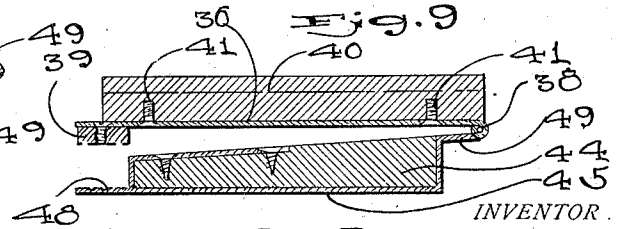


Fig. 9.



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CLAMP.

1,067,121. Specification of Letters Patent. Patented July 8, 1913.

Application filed December 17, 1912. Serial No. 737,315.

To all whom it may concern:

Be it known that I, JOHN CHARLES JOHNSON, a citizen of the United States of America, residing at Skamokawa, in the county of Wahkiakum and State of Washington, have invented certain new and useful Improvements in Clamps, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to shingle gages, and the principal object of the invention is to provide a shingle gage which is so constructed that the various parts will be adjustably connected together thus permitting a very nice adjustment of the gage.

Another object of the invention is to provide a gage which may be removably connected with the shingles already connected with the roof without it being necessary to use nails for holding the gage in place.

With these and other objects in view this invention consists of certain novel combinations, constructions, and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings:—Figure 1 is a top plan view showing the gage in place upon a roof partially shingled. Fig. 2 is a rear elevation of the gage. Fig. 3 is a view showing the gage in side elevation and mounted upon the roof. Fig. 4 is a side elevation of the gage. Fig. 5 is a top plan view of the gage. Fig. 6 is a section along the line 6—6, in Fig. 5. Fig. 7 is a bottom plan view of that portion of the gage shown in Fig. 8. Fig. 8 is a fragmentary longitudinal sectional view through the gage. Fig. 9 is a sectional view of the clamp which connects the gage with the roof. Fig. 10 is a perspective view of the lower jaw of the clamp. Fig. 11 is a perspective view of the free end portion of the upper jaw. Fig. 12 is a section along the line 12—12 in Fig. 5.

Referring to the accompanying drawings it will be seen that this invention comprises a plate 15 which is rectangular in shape and is provided with the longitudinally extending slots 16, 17, 18, 19, and 20, a scale 21 being provided along the slot 20. This plate forms the body portion of the clamp and to this plate the remaining portion of the clamp is adjustably connected so that the gage may be adjusted according to the amount of shingle it is desired to leave exposed to the weather. It is of course obvious that the two clamps shown in Fig. 1 connected by the straight edge are identical in construction so that a description of one of the clamps will be sufficient for both.

A block 22 is positioned beneath the plate 15 and is held in place by means of bolts 23 which pass through the slots 16 and 17 and are provided with the wing nuts 24. A base plate 25 is mounted upon the plate 15 and is provided with feet 26 through which the bolts 23 pass so that the wing nuts 24 not only serve to hold the block 22 in an adjusted position but also serve to secure the base plate 25 to the plate 15. A standard 27 extends from the base plate 25 and is provided with a rack 28. A lever 29 is pivotally mounted upon the standard 27 and is provided at one end with the handle 30 having a pocket 31. A latching pawl 32 is pivotally mounted in the pocket 31 with its outer end engaging the rack 28. A spring 33 is mounted in a cup 34 at the inner end of the pocket 31 and engages the heel 35 of the pawl 32 so that the pawl will be held normally in engagement with the rack 28.

A clamp is slidably connected with the block 22 and comprises an upper section which is slidably connected with the block 22 and the lower section which is hinged to the upper section. This upper section comprises a plate 36 provided with a longitudinally extending slot 37 and provided with a hinge ear 38. Gripping pads 39 are connected with the free end of the plate so that the clamp may very securely grip the shingles. T bars 40 are connected with the plate 36 by means of screws 41 and slide in the under-cut grooves 42 formed in the block 22. Set screws 43 are provided so that the upper section of the clamp may be held in an adjusted position after being moved to the desired place.

The lower section of the clamp comprises a body portion 44 which is wedge shape as clearly shown in Fig. 9 and which is provided with a metallic binding 45 having its upper portion 46 provided with a longitudinally extending slot 47 positioned in alinement with similar slots formed in the body portion and lower portion of the binding as shown in Fig. 8. One end portion of the binding is carried out to form the lip 48 which is roughened and positioned beneath the pads 39 so that the shingles may be securely gripped. The opposite end

portion of the binding is formed into the hinge ears 49 which are positioned upon opposite sides of the hinge ear 38 and connected therewith by means of a suitable pin. A pin 50 provided with an enlarged head 51 passes through the lower jaw of the clamp and through an opening formed in the block 22 with its upper end pivotally connected with the lever 29. It will thus be seen that when the lever is rocked upon its pivot that the lower jaw of the clamp will be moved thus permitting it to be either connected or disconnected with the shingle where the spring 52 is provided so that the clamp will normally remain in an open position and, therefore, it will be a great deal easier to release the clamp from the shingle.

A straight edge bar 53 is adjustably connected with the two gages as shown in Fig. 1 and is held in place by means of the bolt 54 and wing nut 55. A wedge 56 is provided so that the straight edge will be held flat against the shingle thus causing the gage to be prevented from having pivotal movement at its forward end. A pointer 57 is mounted upon the bolt 54 and is provided with a heel 58 which fits into the slot 19 thus preventing the pointer from having pivotal movement on the bolt. A bracing shoe 59 is removably connected with the plate 15 by means of the set screw 60 and bears against the roof as shown in Fig. 3 so that the gage will be prevented from slipping.

When using this gage the straight edge is adjusted by loosening the wing nuts 55 of the clamps and sliding the straight edge until the pointer is at the mark which will indicate the amount of shingle which it is desired to be exposed to the weather. In Fig. 5 the gage is so adjusted that five inches of shingle will be exposed. The gage is then placed upon the roof and after a few rows of shingles have been placed upon the roof in order to form a ground to work upon the gage is put in place with the lips 48 of the clamps fitting beneath the shingles. The lever 29 is then rocked to cause the shingle to be securely gripped and the gage is then ready for use. The shoe 59 also assists in preventing the gage from slipping. If it is desired to use the gage for weather boards and it is desired to have more boarding exposed than the adjustment of the straight edge will permit the wing nuts 24 may be loosened and the block 22 moved rearwardly, thus leaving a greater space between the straight edge 53 and the forward end of the block 22. It will thus be seen that this gage is permitted to have a great deal of adjustment since it may be adjusted at two places.

If desired the standard and latching lever may be done away with and the pin 50 threaded so that an adjusting crank 61 may be used.

Having thus described the invention what is claimed as new, is:—

1. A gage comprising a plate provided with a plurality of longitudinally extending slots, a block positioned beneath said plate, a base plate mounted upon said first mentioned plate, securing bolts for said block passing through certain of said slots and through said base plate to hold said block and base plate in position, a latch lever carried by said base plate, a clamp having its upper jaw slidably connected with said block, a pin extending from the lower jaw of said clamp through said block and one of the slots of said plate and pivotally connected with said lever, a straight edge bar, a securing bolt for said straight edge bar passing through one of the slots of said plate, and a pointer mounted upon the securing bolt of said bar and provided with a heel slidably mounted in the remaining slot of said plate to prevent pivotal movement of said pointer.

2. A gage of the character described comprising a plate, a block adjustably connected with said plate, a base plate mounted upon said first mentioned plate and adjustably connected with said block, a latch lever carried by said base plate, a clamp adjustably connected with said block, said clamp comprising an upper jaw, angle strips carried by said jaw and slidably mounted in grooves formed in said block, means for holding said strips in an adjusted position, a lower jaw pivotally connected with the upper jaw, a pin extending from said lower jaw through said block and pivotally connected with said latch lever, and a straight edge bar adjustably connected with the forward end of said plate.

3. A gage of the character described comprising a plate, a block carried by said plate, a latch lever, a clamp, said clamp comprising an upper jaw adjustably connected with said block, gripping pads at the free end of said upper jaw, a lower jaw hinged to said upper jaw and provided with a longitudinally extending slot, a pin passing through slots formed in said jaws and pivotally connected with said latch lever, a lip extending from said lower jaw and positioned beneath the pads of said upper jaw, and a straight edge bar adjustably connected with said plate.

4. A gage of the character described comprising a plate, a clamp, a latch lever, said latch lever comprising a standard carrying a rack, a lever pivotally mounted upon said standard, a handle at one end of said lever provided with a pocket having a cup in its inner end portion, a latching pawl pivotally mounted in said pocket and provided with a heel extending above said cup, a spring positioned in said cup and engaging said heel to normally hold said latch in engage-

ment with said rack, a pin connected with said clamp and with said lever, and a straight edge bar at the forward end of said plate.

5. A gage of the character described comprising a plate, a clamp connected with said plate, a straight edge bar, a securing bolt for said bar passing through a slot in the forward end of said plate, a pointer mounted upon the securing bolt of said bar, a heel for said pointer slidably mounted in a longitudinally extending slot formed in said plate, and a supporting shoe at the rear end of said plate.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JOHN CHARLES JOHNSON.

Witnesses:

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EMIL C. MARTIN.

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