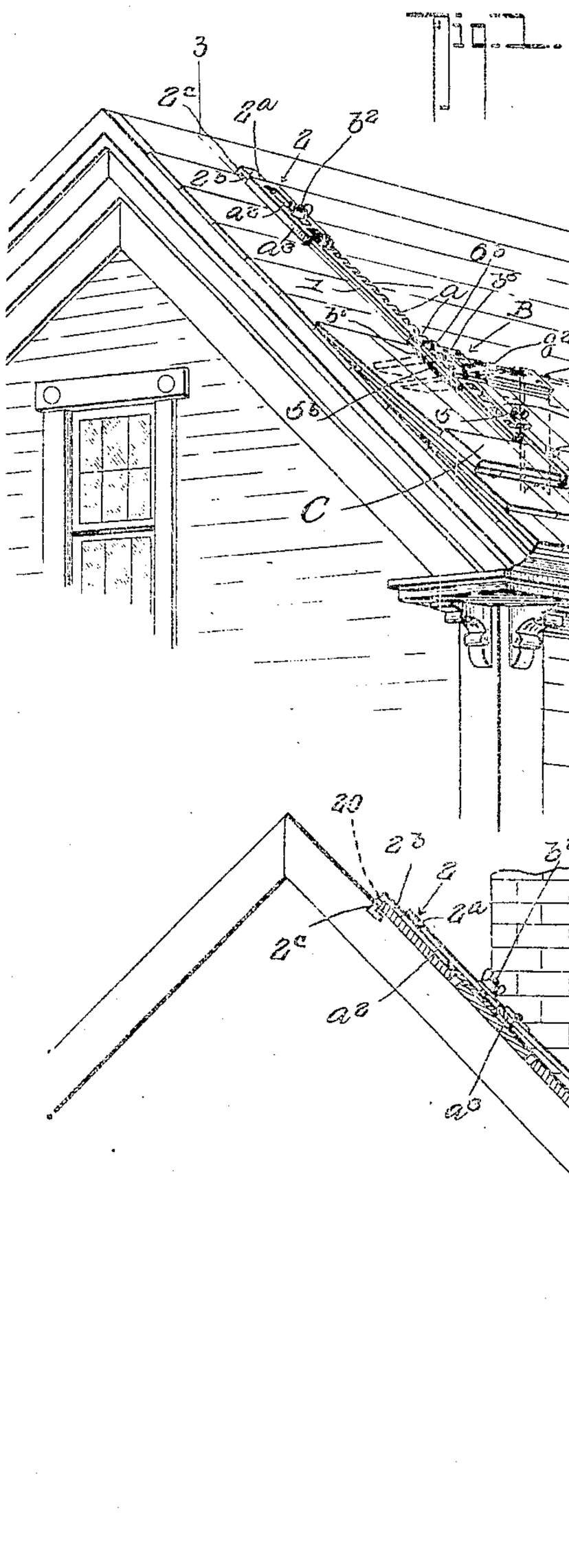
No. 786,710. PATENTED APR. 4, 1905.

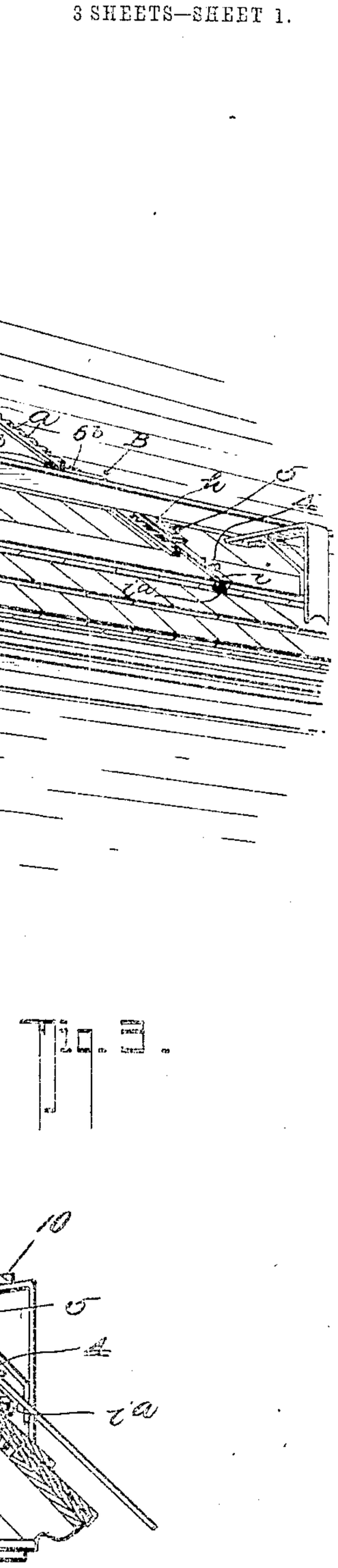
A. ANDERSON.

ADJUSTABLE SHINGLE GAGE.

APPLICATION FILED JAN. 21, 1905.

3 SHEETS—SHEET 1.





WITNESSES:

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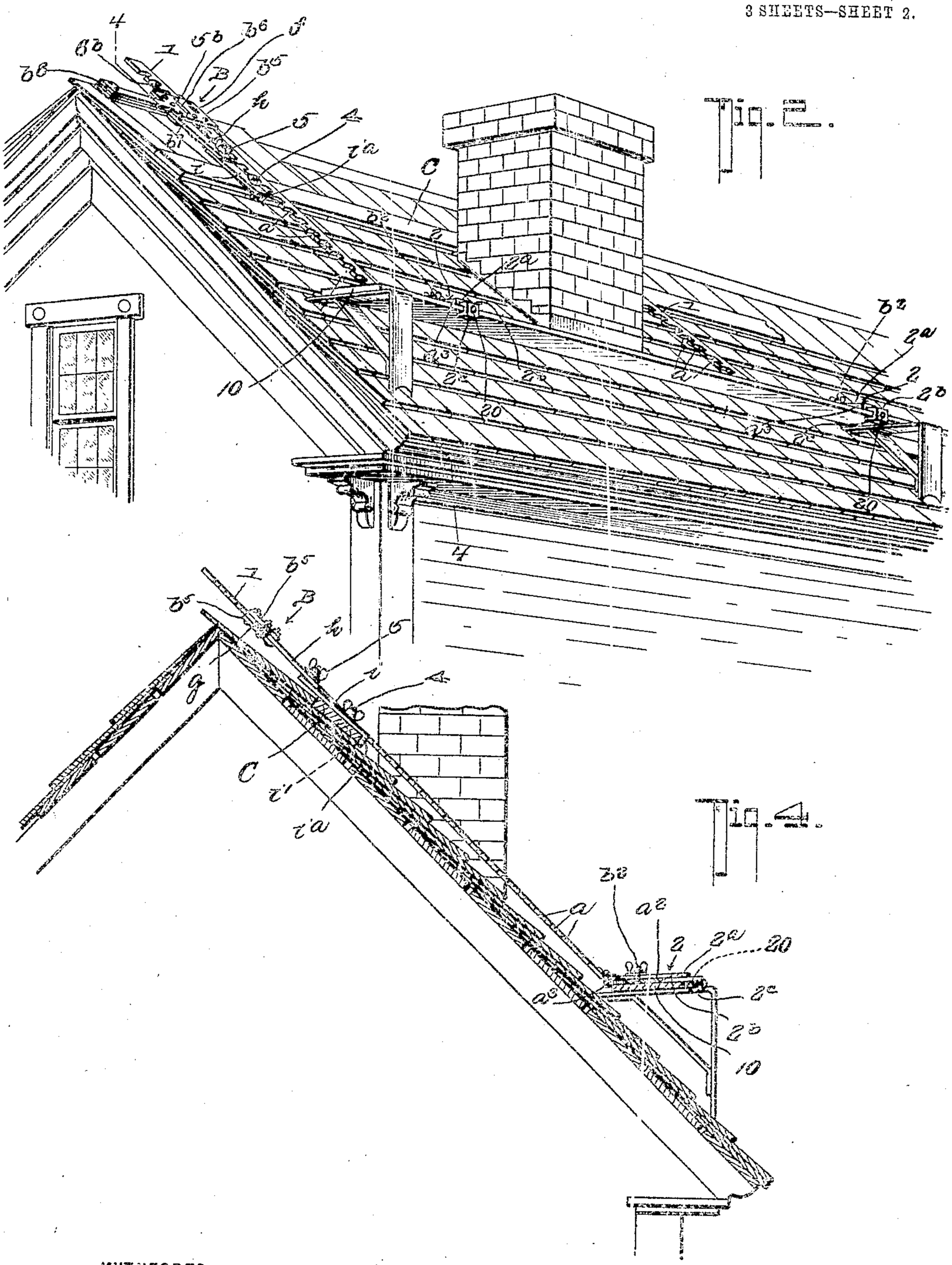

Fig. 2.

Fig. 4.

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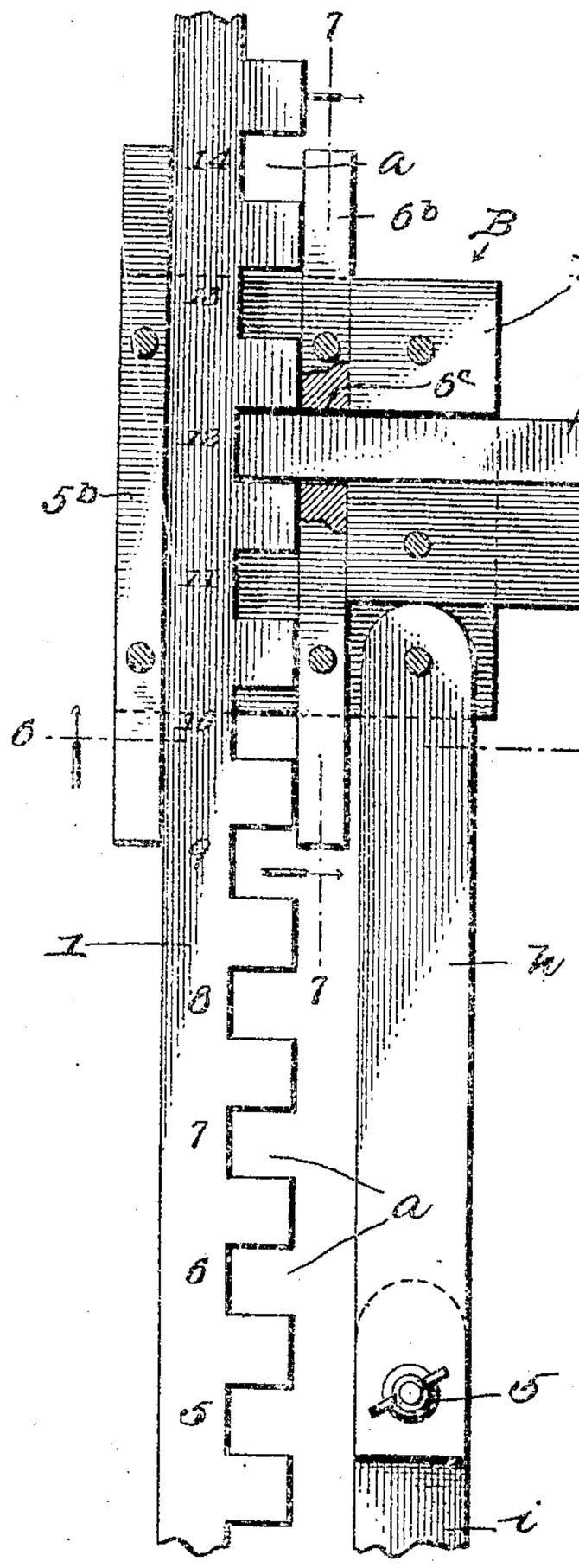


Fig. 5

Fig. 7.

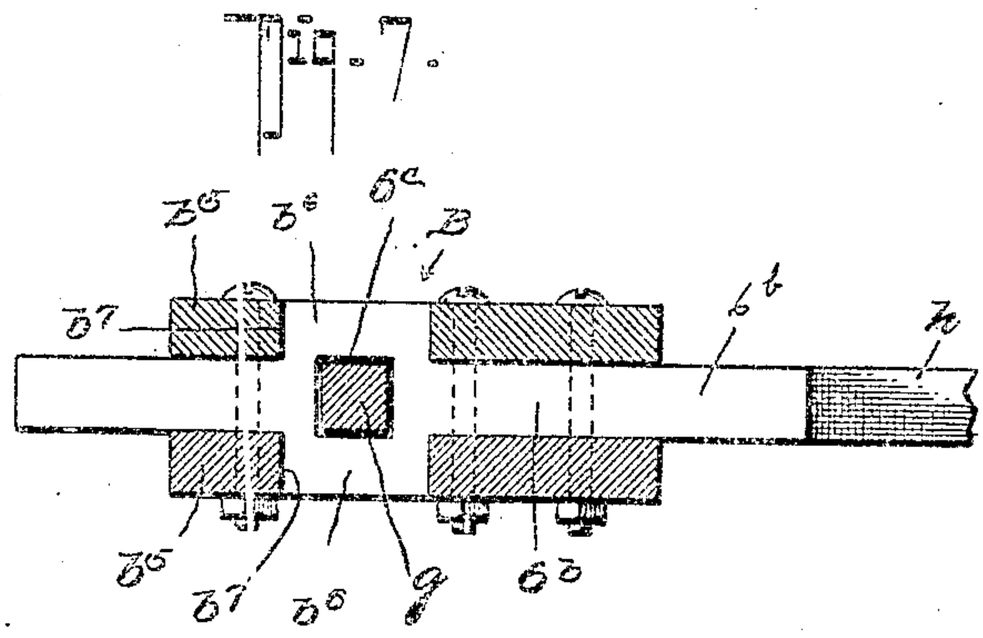
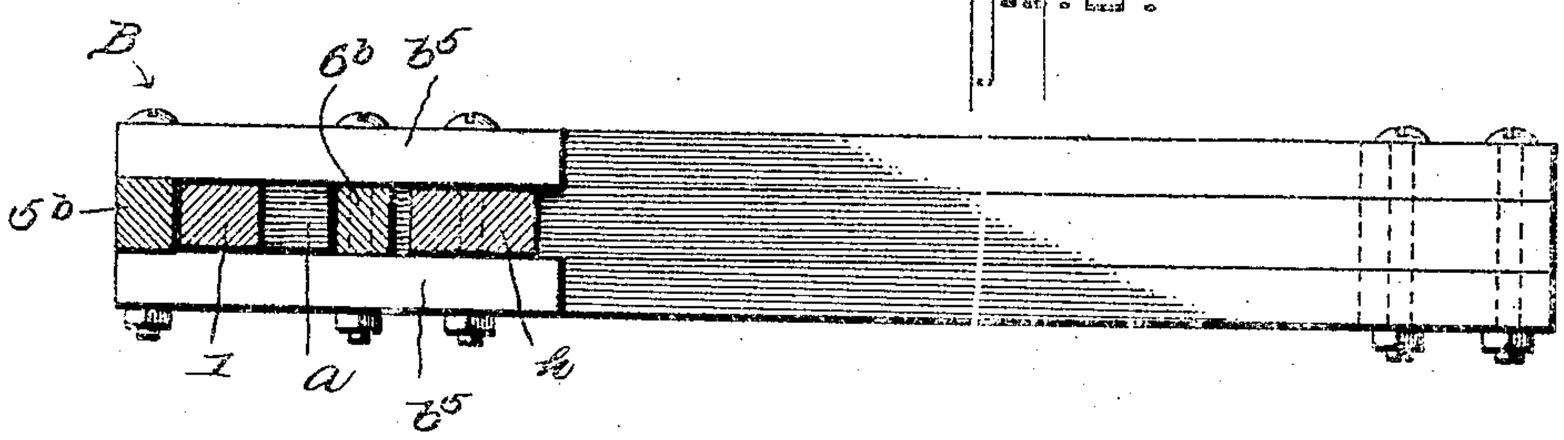


Fig. 6.



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No. 786,710. Patented April 4, 1905.

UNITED STATES PATENT OFFICE.

ALFRED ANDERSON, OF BELLINGHAM, WASHINGTON.

ADJUSTABLE SHINGLE-GAGE.

SPECIFICATION forming part of Letters Patent No. 786,710, dated April 4, 1905.

Application filed January 21, 1905. Serial No. 242,165.

To all whom it may concern:

Be it known that I, ALFRED ANDERSON, residing at Bellingham, in the county of Whatcom and State of Washington, have invented a new and Improved Adjustable Shingle-Gage, of which the following is a specification.

My invention relates to improvements in that type of gage devices more especially adapted for use in the operation of laying and nailing on shingles; and it primarily seeks to provide a device of the character stated of a simple and economical construction which can be easily manipulated and is capable of such adjustments that the necessity of making nail-holes in the roof incident in the usual way of applying the shingles is avoided.

My invention comprehends in its generic nature a gage-beam having a suitable scale-face, means for sustaining it at desired positions on the roof-surface to be shingled, and a shingle-abutment carrier, and means adjustably and slidably connected with the gage-beam coöperatively connected with the said shingle-abutment carrier, said sliding adjusting means being arranged to shift the shingle-abutment as the gage-beam is fixedly held.

My invention in its more complete nature embodies means for holding a shingle gage-board against which the butts of the shingles are set in the act of shingling and a gage-beam having means for detachably and pendently supporting it from the roof-boards, the said shingle-board holder being arranged to detachably, slidably, and reversibly engage and coact with the gage-beam, said gage-beam being also constructed for reverse adjustment and sustained on the roof structure at its lower end, whereby to provide for conveniently laying the shingles up to the peak of the roof.

My invention in its subordinate features consists in certain details of construction and peculiar combination of parts, all of which will be hereinafter fully explained, pointed out in the appended claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my invention, showing the same as applied for use. Fig. 2 is a similar view showing the same adjusted for shingling the upper or peak end of the roof. Fig. 3 is a longitudinal section taken practically on the line 3 3 of Fig. 1. Fig. 4 is a similar view on the line 4 4 of Fig. 2. Fig. 5 is a face view of the slidable carrier with the front plate thereof removed. Fig. 6 is a horizontal section thereof on the line 6 6 of Fig. 5. Fig. 7 is a cross-section thereof on the line 7 7 of Fig. 5.

Referring now to the drawings, in which like numerals and characters designate like parts in all the figures, 1 is a notched beam of suitable thickness and in practice about three feet long and one inch wide. This beam, which I shall hereinafter term the "gage member," is made of steel and has on one edge notches *a*, whose centers are spaced one inch apart, thirty of said notches being shown, although more or less may be used. Each notch is designated by numbers, beginning with "0" at the lower end of the beam and ending with "30" at the upper end.

2 designates a hanger-bar composed of two sections slidably connected, the lower section 2^a being slotted longitudinally, as indicated by a^2, and the upper section 2^b has its lower end fitted to slide between the flanges a^3 of the part 2 and has a clamp-screw b^2, that passes through the slot a^2 and has a winged clamping-nut, as shown, such arrangement of parts being provided to admit of properly adjusting the hanger 2 so its upper end 2^c, which is hook-shaped, can be readily fitted over the uppermost one of the roof-boards, as clearly shown in Fig. 1.

B, Figs. 2 and 5, designates a carrier, which is slidably mounted on the gage member 1 and to which the hanger members *h* and *i*, that support the shingle abutment or gage-board C, are pivotally connected, the member *h* being hinged to the lateral portion of the carriage, and the member *i* is detachably but pivotally joined with part *h* by the winged nut member 5, and the lower end of the member *i* is formed with an inturned heel i^a, which forms the rest for the abutment or gage-board C, and to securely hold the member to the board C a wood-screw 4, having a winged head, is fitted through the opening i' in the said member, as clearly shown in the drawings. The carrier B comprises two opposing face-plates b^5 b^5, separated at the inner end by the

flanges 5^b 6^b, one of which, 6^b, has lugs b^6, that fit into slots b^7 b^7 in the face-plates, as shown, and is so spaced from the flange 5^b, whereby to form a convenient guide for the gage member 1, that extends through the guide between the face-plates b^5 b^5 and the flanges 5^b 6^b, as clearly shown in Figs. 3, 5, and 7, by reference to which it will be also noticed the flange 6^b has a slot 6^c, through which passes the latch-bolt g, guided between the face-plates of the carrier to engage the notches in the gage member, and the said latch has a rod extension g', that slides in a bearing b^8 on the outer end of the lateral member of the carrier and has a finger-piece g^2 for withdrawing it from engagement with the notched or rock member 1 and a spring g^3, that coöperates therewith for normally forcing the latch to engage the member 1. Each face-plate of the carrier has a sight-opening f f in line with the figures on the gage-plate, so that the adjustments of the gage member can be readily made.

From the foregoing description, taken in connection with the accompanying drawings, it is believed the manner in which my invention is utilized and its advantages will be readily apparent to those skilled in the art to which it appertains.

By reason of the coöperative arrangement of the parts shown and described should it be desired to lay the shingles, say, five inches to the weather the carrier B is adjusted upwardly on the gage member 1 five notches, the designating-numerals of which can be seen through the sight-openings in the carrier, it being understood if six inches or four inches to the weather the carrier is correspondingly adjusted. Again, the construction of the several parts is such that when the roof is shingled almost to the top and the hook end of the upper end of the hanger 2 has been attached to the peak of the roof and the carrier B has been moved upwardly until it is in line with notch No. 30 the several parts can be readily reassembled to allow for finishing the shingling up to the top of the roof, and such assembling or adjustment is done as follows: The member h is uncoupled from the member i, that is clamped to the gage-board C, and the carrier B is slipped entirely off the gage member 1. The said member 1 is then reversed. The hanger member 2 is now at the bottom and is swung outwardly, as shown in Fig. 2, and is made fast to the scantling-piece 10, used to stand on, by driving a nail through the hole 20 in the hook end and into the scantling. The carrier B is now put back upon the beam or member 1 with its lateral portion extended to the left (see Fig. 2) to coact with the gage-member notches, now facing to the left, and the said carrier B is run down on the said gage member until it reaches notch No. 30. The member h is now again coupled to the part i, when the device will be ready to use as before, except that the reading of the gage-notches is now backward.

It should be stated that in practice two of my improved devices are used, so as to properly lift the gage or leveling-board C at each end, and in addition to the swinging-out feature of the hanger 2, as shown in Fig. 2, the purpose of the hinge is that, in changing, the straight-edge or gage-board C used for shingling can be lifted up, together with the lower end of the gage beam or member 1.

By making the hanger 2 adjustable admits of easily setting both gage members so that they will properly aline with each other, particularly so when the roof-boards are not of the same width.

By using my appliances the shingler need put no holes in the roofs and does not need to use a pencil to measure the distance the shingles should be laid to the weather, and since by the use of my invention the shingles can be handled conveniently and quickly set to a proper position for nailing a roof can be shingled much more rapidly than by the ordinary method.

Slight changes in the details and modification of the parts shown may be made without departing from the scope of the appended claims.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An adjustable shingling-gage, comprising a gage member, means for sustaining the same in place on the roof, a carriage slidably mounted on the gage member, means thereon for interlocking with the gage member, a hanger pendent from the carriage and movable therewith, said hanger being arranged to support the leveling-board, as set forth.

2. In an adjustable shingling appliance of the character described; a gage member having divisional indications, means for pendently supporting said gage, a carriage slidably mounted on the gage member, means on the carriage for interlocking with the gage member, and a hanger pendent from the carriage adapted to support the leveling-board, as set forth.

3. In a shingling appliance, the combination with a gage member, a carrier slidably and reversibly mounted on said gage member, and an arm pendent from the carriage, for supporting the leveling or gage board, as set forth.

4. An adjustable shingling-gage comprising a uniformly-notched gage member, means for pendently supporting it on the roof, a carriage movable on the notched gage member, a latch member on said carriage engaging the notched gage member, said carriage including a pendent arm for supporting the gage or leveling board, as set forth.

5. In an adjustable shingling-gage as described, the combination with the gage mem-

ber, and the carriage adjustably movable thereon, said carriage including a member for sustaining the leveling or gage board; of a hanger hinged to the upper end of the gage member, said hanger consisting of two extensible sections clamped to each other, the upper section having means for engaging the roof-boards, as set forth.

6. In an adjustable shingling appliance, the combination with a gage member, means for pendently suspending it on the roof, and a carriage detachably and reversibly mounted and adjustably held upon the gage member; of a hanger pendently secured to the carriage, said hanger consisting of two members detachably and pivotally connected, the lower one of said members being arranged to support the leveling or gage board, as set forth.

7. In an adjustable shingling appliance, the combination with the notched gage member, and means for hanging it on the roof; of the carriage having a guide-slot through which the gage member passes, a sight-opening in each of the opposite faces, and a lateral extension, a spring-latch on the extension adapted to engage the notches on the gage member, and a hanger pendent from the carriage formed of two detachable sections, the lower one of which is adapted to support the leveling-board.

8. As an improvement in shingling appliances, a gage member notched at one edge, means for supporting it on the roof either end uppermost, a carriage slidable on the gage member and adapted for reversible fitting thereon, a latch on the carriage for engaging the notches therein, a hanger pendently secured to the carriage composed of two detachably-connected members, the lower one of which is adapted to connect with the leveling-board, as set forth.

ALFRED ANDERSON.

Witnesses:
MARTIN ANDERSON,
CORDELIA ANDERSON.