April 13, 1948. E. W. ANKNEY 2,439,681

APPARATUS FOR LAYING ROLL ROOFING

Filed Feb. 16, 1945 3 Sheets-Sheet 1

Fig. 1.

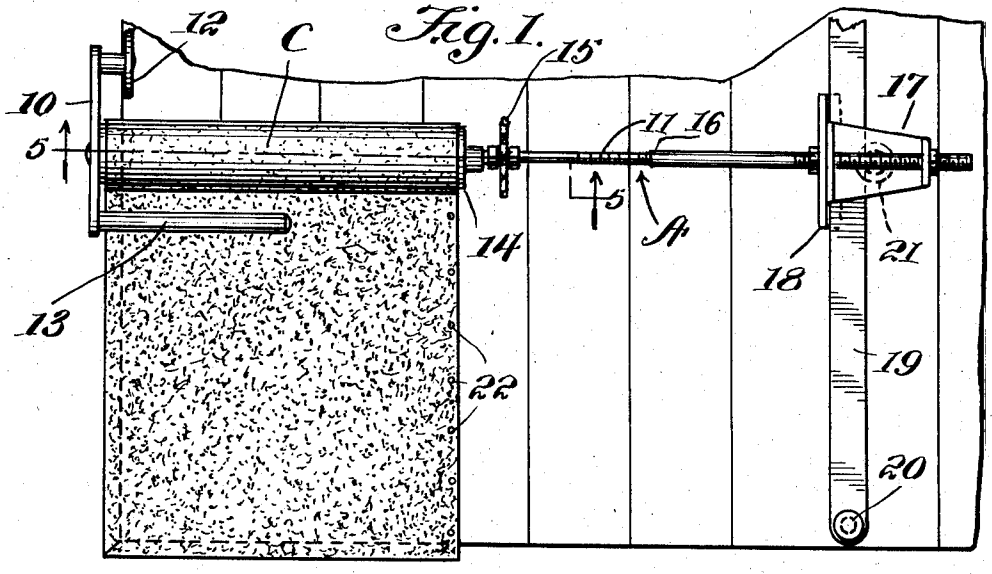


Fig. 7.

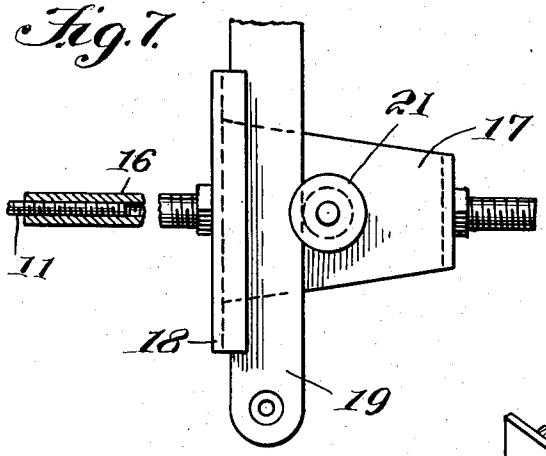


Fig. 8.

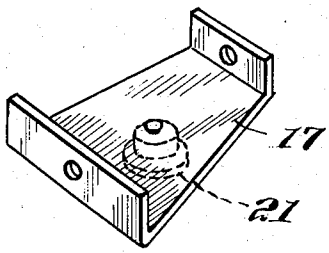


Fig. 10.

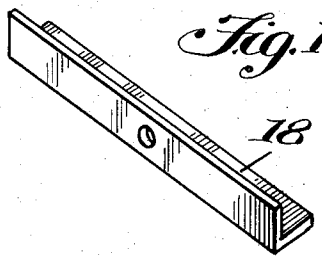
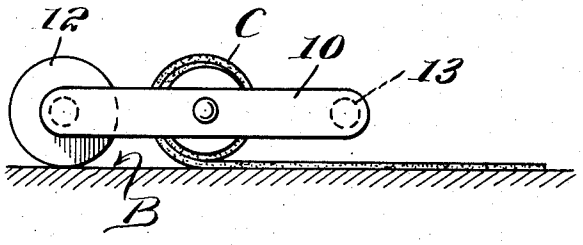


Fig. 9.



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APPARATUS FOR LAYING ROLL ROOFING

Filed Feb. 16, 1945 3 Sheets-Sheet 2

Fig. 2.

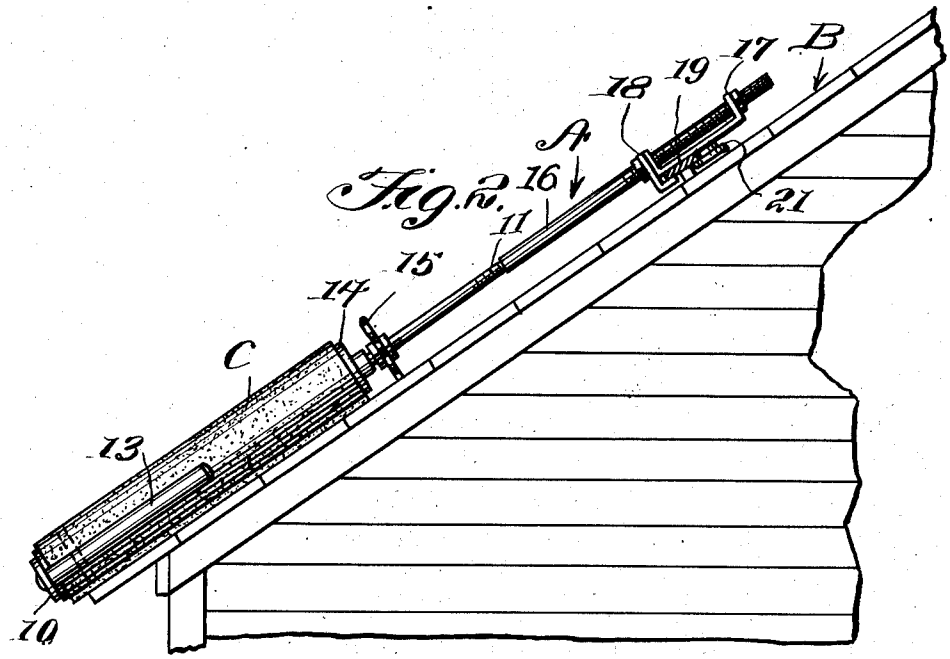


Fig. 3.

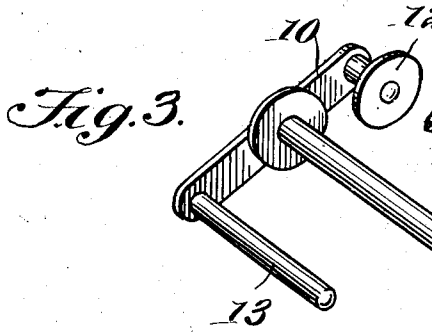


Fig. 4.

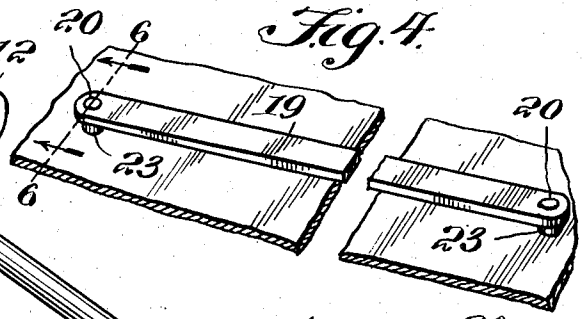


Fig. 6.

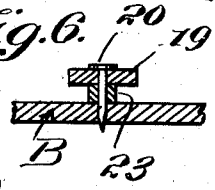
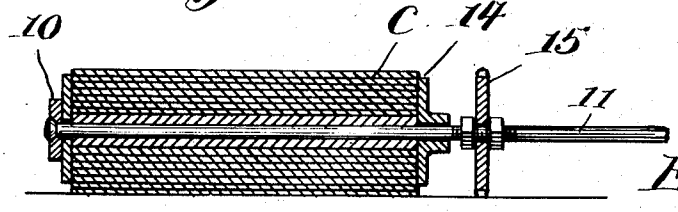


Fig. 5.



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April 13, 1948. E. W. ANKNEY 2,439,681

APPARATUS FOR LAYING ROLL ROOFING

Filed Feb. 16, 1945 3 Sheets-Sheet 3

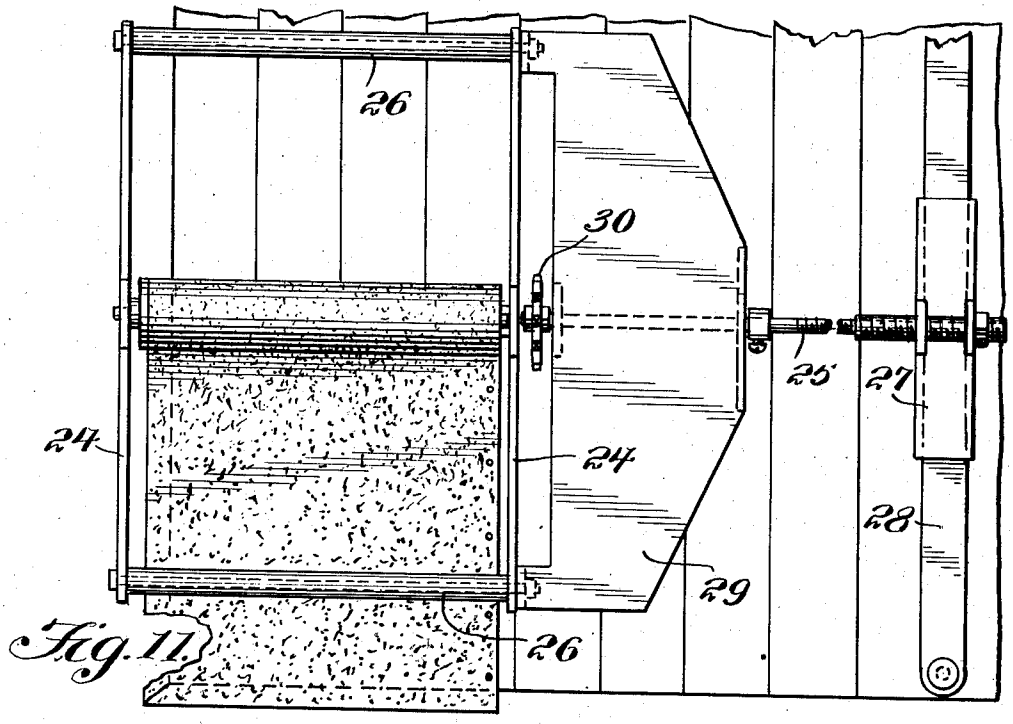


Fig. 11.

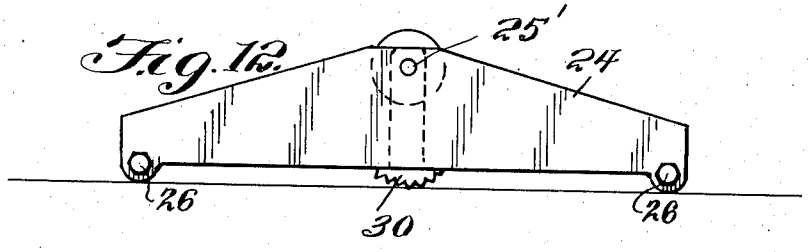


Fig. 12.

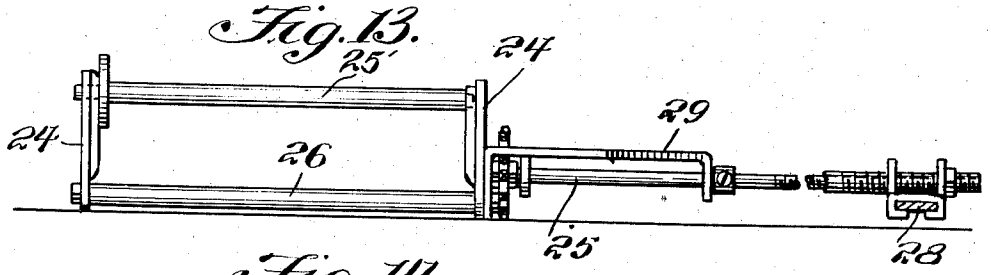


Fig. 13.

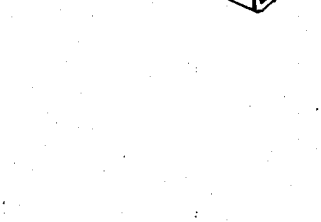


Fig. 14.

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UNITED STATES PATENT OFFICE

2,439,681

APPARATUS FOR LAYING ROLL ROOFING

Ezra W. Ankney, Acme, Pa.

Application February 16, 1945, Serial No. 578,327

4 Claims. (Cl. 242—90)

1

The invention relates to a roofing tool, and more especially to a roofing material roll laying apparatus.

The primary object of the invention is the provision of an apparatus of this character, wherein a roll of roofing material can be placed therein, so that it can be accurately laid on a roof, and in overlap strip lengths for coverage of such roof, the apparatus being of novel construction and is unique, to assure proper laying of the roofing material with dispatch and accuracy.

Another object of the invention is the provision of an apparatus of this character, wherein a roll or roofing material is bodily carried thereby, and can be correctly and smoothly fed therefrom in the proper laying of the same upon a roof for its coverage, the apparatus being readily and easily handled, and is susceptible of the fitting of different sizes of rolls of roofing material with correctness of seaming and laying-out thereof on a roof.

A further object of the invention is the provision of an apparatus of this character, wherein the roofing roll material can be automatically fed therefrom, the latter being carried by the apparatus for movability thereof, and may be conveniently cut in the required length concurrently with the laying thereof.

A still further object of the invention is the provision of an apparatus of this character, which is simple in construction, thoroughly reliable and efficient in operation, strong, durable, readily and easily applied in place and removed with dispatch, easily operated, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which show the preferred and modified forms of construction thereof, and pointed out in the claims hereunto appended.

In the accompanying drawings—

Figure 1 is a fragmentary plan view of a roof showing the apparatus constructed in accordance with the invention in a working position thereon.

Figure 2 is a fragmentary edge view thereof.

Figure 3 is a perspective view of the roll carriage of the apparatus.

Figure 4 is the track for such carriage.

Figure 5 is a fragmentary sectional view taken

2

on the line 5—5 of Figure 1 looking in the direction of the arrows.

Figure 6 is a sectional view taken on the line 6—6 of Figure 4 looking in the direction of the arrows.

Figure 7 is a detail plan view of the track connection of the apparatus.

Figure 8 is a perspective view of a head piece of such connection.

Figure 9 is an end view of the apparatus.

Figure 10 is a perspective view of the track guide.

Figure 11 is a view similar to Figure 1 showing a modification.

Figure 12 is an end view thereof.

Figure 13 is a side view.

Figure 14 is a perspective view of the track runner thereof.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, particularly, Figures 1 to 10 inclusive, A designates generally the apparatus constructed in accordance with the invention, while B denotes a portion of a roof for coverage by roofing material C which normally is in roll form.

The apparatus A comprises a carriage involving a chassis beam or bar 10 having medially thereof the axle section 11 on which is loosely placed the roll C of the required length, while at the outer ends of this beam or bar 10 is a rotatable tread wheel 12 and a presser arm 13, respectively, these being spaced from and on opposite sides of the axle section 11.

Removably fitting the axle section 11 remote from its mounting with the beam or bar 10 is a guide collar 14, while next to this collar and detachable from the section 11 is a spur walking gear 15, and this section 11 is telescopically engaged in the center stem 16 of a track runner having a head piece 17 and an angle guide member 18, respectively, the latter being detachable from the stem, and likewise the head, which slidably couple to a track rail 19. The rail 19 is removably secured in place on the roof B by suitable fasteners 20, as best seen in Figure 1 of the drawings. The head 17 carries a track roller 21 contacting the rail 19. The rail 19 in place is parallel with the side edge of the roofing material C next thereto, when the apparatus A is in position as shown in Figure 1 of the drawing.

With the apparatus A in position, as shown in Figure 1, the first lay of the roofing material C is layed and concurrently tacked at 22 to the roof,

the apparatus feeding out the material as it is moved crosswise of the roof, identically as shown in said Figure 1. The tread wheel 12 tracking the roofing bed in advance of the roll of material C during the laying thereof, while the arm 13 holds this material down onto the said roof during the feeding thereof. The track rail 19 is upwardly spaced from the roof B by spacer pieces 23, these being best shown in Figures 4 and 6 of the drawings.

The axle section 11 is separable from the beam or bar 10 for the mounting of the roll of material C or dismounting thereof.

In Figures 11 to 14, inclusive, of the drawings, there is shown a modification of the invention, wherein the carriage is in the form of a chassis frame, including the side beams or bars 24, with the axle section 25' centrally of the frame, and the hold down members 26 mounted on opposite sides thereof in the outer ends of said bars 24. As previously described the axle section is provided with a spur walking gear 30 and the axle 25 is telescopically engaged in the center stem of the track runner 27 which slidably fits the track 28, the frame being in association with an extension yoke plate 29 which is mounted on one of the bars 24 in a position immediately above the axle section 25, and the tread wheel heretofore described is dispensed with entirely, yet the spur wheel 30 is in the organization of the modified form of apparatus just described.

From the foregoing, it is thought that the construction and manner of operation of the preferred and modified forms of the apparatus will be clearly understood and therefore a more extended explanation has been omitted, for the sake of brevity.

What is claimed is:

1. An apparatus of the kind described, comprising a carriage for a roll of roofing material, an axle section journalled medially of said carriage at right angles thereto for supporting the roll while said material is fed outwardly of said carriage on movement of the carriage, a guide track for the carriage remote from said carriage, and in parallel relation therewith, an extension on said axle section, and means mounted on the extension of said axle section for guiding the carriage on the track.

2. An apparatus of the kind described, comprising a carriage for a roll of roofing material, an axle section journalled medially of said carriage at right angles thereto for supporting the roll while said material is fed outwardly of said carriage on movement of the carriage, a guide track for the carriage remote from said carriage, and in parallel relation therewith, an extension on said axle section, means mounted on the extension of said axle section for guiding the carriage on the track, and a runner for the track included in said means.

3. An apparatus of the kind described, comprising a carriage for a roll of roofing material, an axle section journalled medially of said carriage at right angles thereto for supporting the roll while said material is fed outwardly of said carriage on movement of the carriage, a guide track for the carriage remote from said carriage, and in parallel relation therewith, an extension on said axle section, means mounted on the extension of said axle section for guiding the carriage on the track, a runner for the track included in said means, and means extending from the carriage in parallel relation to said axle section for holding down the material with relation to a roof when fed from the roll.

4. An apparatus of the kind described, comprising a carriage for a roll of roofing material, an axle section journalled medially of said carriage at right angles thereto for supporting the roll while said material is fed outwardly of said carriage on movement of the carriage, a guide track for the carriage remote from said carriage, and in parallel relation therewith, an extension on said axle section, means mounted on the extension of said axle section for guiding the carriage on the track, a runner for the track included in said means, means extending from the carriage in parallel relation to said axle section for holding down the material with relation to a roof when fed from the roll and a walking wheel associated with the axle section extension of the carriage.

EZRA W. ANKNEY.

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The following references are of record in the file of this patent:

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