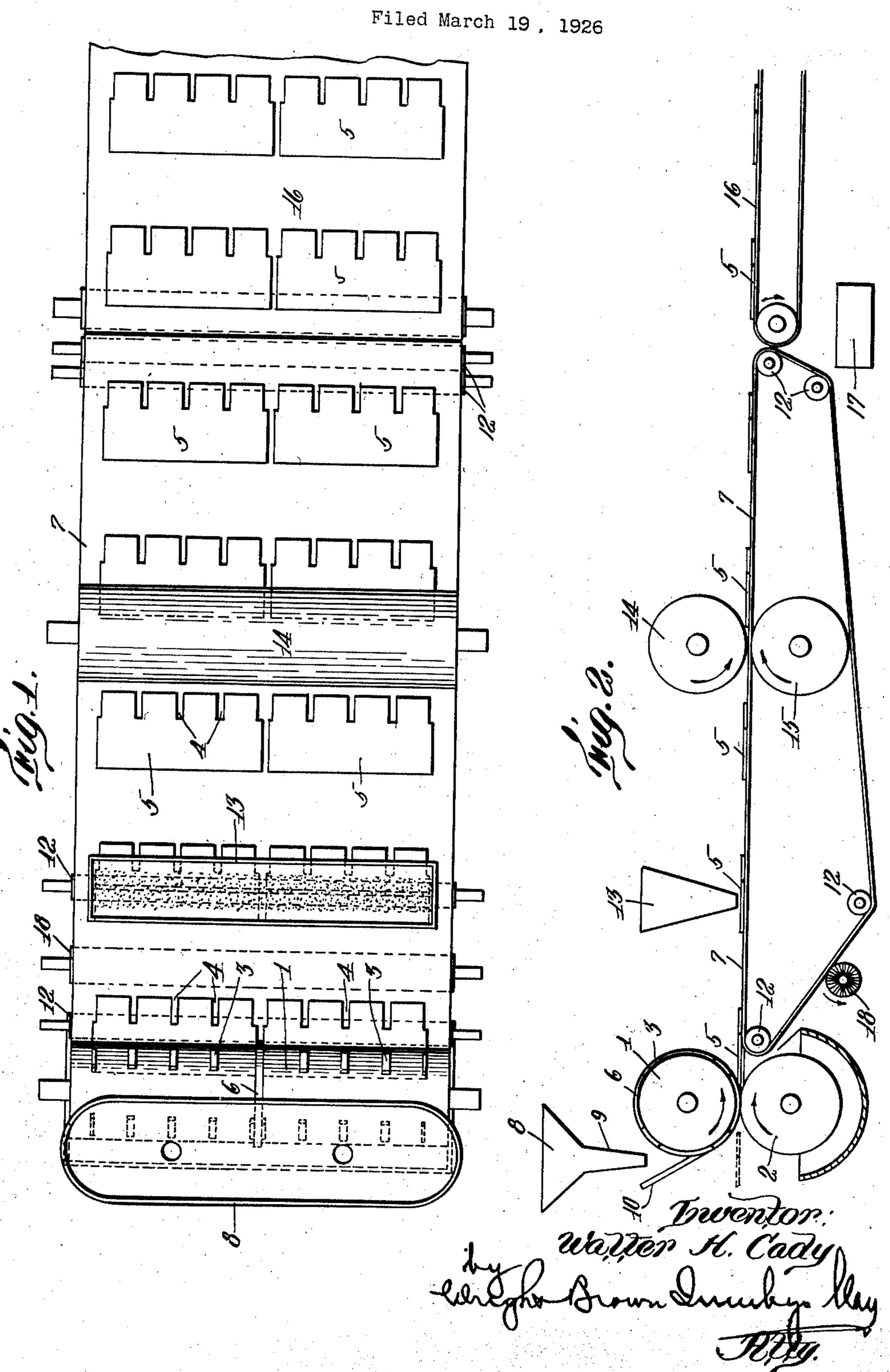
PROCESS FOR COATING AND SURFACING PREPARED ROOFING



## UNITED STATES PATENT OFFICE

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PROCESS FOR COATING AND SURFACING PREPARED ROOFING

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This application is a continuation of appli- that it will be uniformly fed as a coating sub-

cut into shingle units.

An important object of the invention is the fact that all surface and edges of the strip 15 shingles are completely covered and that any waste material is recovered to be recycled in

the covering of other shingles.

vention.

Figure 1 is a plan view of the apparatus. Figure 2 is a side elevation with a sub-20 stantial part of the machine omitted for clearness in showing the salient points of the in- the coating to form the completed product.

rated felt or sheets of saturated felt which have been coated with asphalt and surfaced with crushed slate or other crushed mineral material, are introduced between the rolls 1 30 and 2, being engaged by the upper roll by lugs 3 positioned thereon in a manner to regisshingles 5. A central guide 6 in the center of shingles from the rolls 1 and 2. the upper roll 1 serves to properly feed the placement as they progress onto the endless belt 7 which may be made of any suitable material. The strip shingles as they are fed between the rolls are coated over all their surtic substance, such as asphalt, or other water- process of coating and surfacing. proofing substances which are ordinarily used 50 stance evenly over the surface of the roll so out portions of the shingle units keep the cut-

cation Serial No. 526,329, filed December 31, stance onto a strip shingle. It also prevents 1921, now Patent No. 1,599,512, Sept. 14, the collection of accumulations of the water-1926, as to all subject matter common to both. proofing substance on the upper roll. Any The invention relates to a process and ma-chine for coating and surfacing prepared ried off into the lower pan or container which shingles and refers more particularly to a is situated below the lower roll. The endless process and apparatus in which prepared belt 7 runs over a plurality of spools 12 and rooting in the form of roofing units, such for passes under a hopper 13 and between pres-10 example as strip shingles, may be thoroughly sure rolls 14 and 15, the strip shingles after 60 coated and surfaced subsequent to their being being coated, while passing between the rolls 1 and 2, progress with the belt until they reach a position beneath the hopper 13. This hopper contains granular surfacing material, such as ground slate, which is fed onto the ad- 65 hesive coating on the upper surface and all the edges of the shingle, the excess surfacing collecting upon the belt. The shingles then pass on between the pressure rolls 14 and 15 where the surfacing material is pressed into 70

After leaving the pressure rolls, the Referring to the drawings, strip shingle shingles leave the endless belt and pass onto blanks cut from prepared roofing material a receiving belt 16 which conveys them to a 25 common in the art, such as sheets of unsatu- refrigerator. Beneath the end of the endless 75 belt 7 is a pan or hopper, as shown at 17, in which collects the excess surfacing material which is deposited upon the belt during its passage under the hopper 13. At 18 is situated a cleaning brush which is rotated in a 80 manner to thoroughly clean the surface of the ter with the cut-out portions 4 of the strip belt prior to its return to receive the coated

The driving mechanism of the respective 35 shingle units and to prevent their lateral dis- rolls and spools for running the belts has been 85 purposely omitted as it forms no part of the invention. It is understood, however, that the rolls must be operated at relative speed so that the strip shingles will be properly fed faces and edges with a molten bituminous mas- and progressed at a uniform rate through the 90

In this manner, strip shingles which have to coat prepared roofing. The asphaltic coat- been cut from the initial sheet may be readily ing substance is maintained in a tank 8 which coated and surfaced, all portions of the is positioned over the rolls so that the heated shingle unit receiving a complete coating of 95 asphaltic coating in a fluid or semi-fluid con- the mastic, an outer layer of crushed slate dition flows down through the funnel-like being partially embedded in the coating on spouts 9 and collects behind a doctor knife 10 one face and the edges of each shingle. The which serves to spread the waterproofing sub- lugs 3 on the roll 1 in registering with the cutout portions free of excess coating material which would tend to collect and form a web across the cut-outs as the strip shingles pass through the initial coating stage. The lugs, being covered with coating material from the container 8 and being somewhat smaller than the cut-outs, carry sufficient coating material into the cut-outs to coat their edges thoroughly. The films of coating material on the rolls 2, 3, meet around the outer edge of the shingle and thus complete the encasing of the unit with an envelope of coating material over its entire surface, and this coating is surfaced with the slate or other grit.

I claim:

1. The process of treating individual shingle units cut from prepared roofing and having butt and adjacent side edges which includes the successive steps of coating all portions of the units uniformly with waterproofing bituminous material and applying granular surfacing material to the units in a con-

tinuous operation.

2. The process of treating individual shingle units cut from prepared roofing and having butt and adjacent side edges, which process includes the successive steps of coating portions of the unit including the butt and side edges with bituminous material and applying granular surfacing material to the units in a continuous operation.

In testimony whereof I have affixed my sig-

nature.

WALTER H. CADY.

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