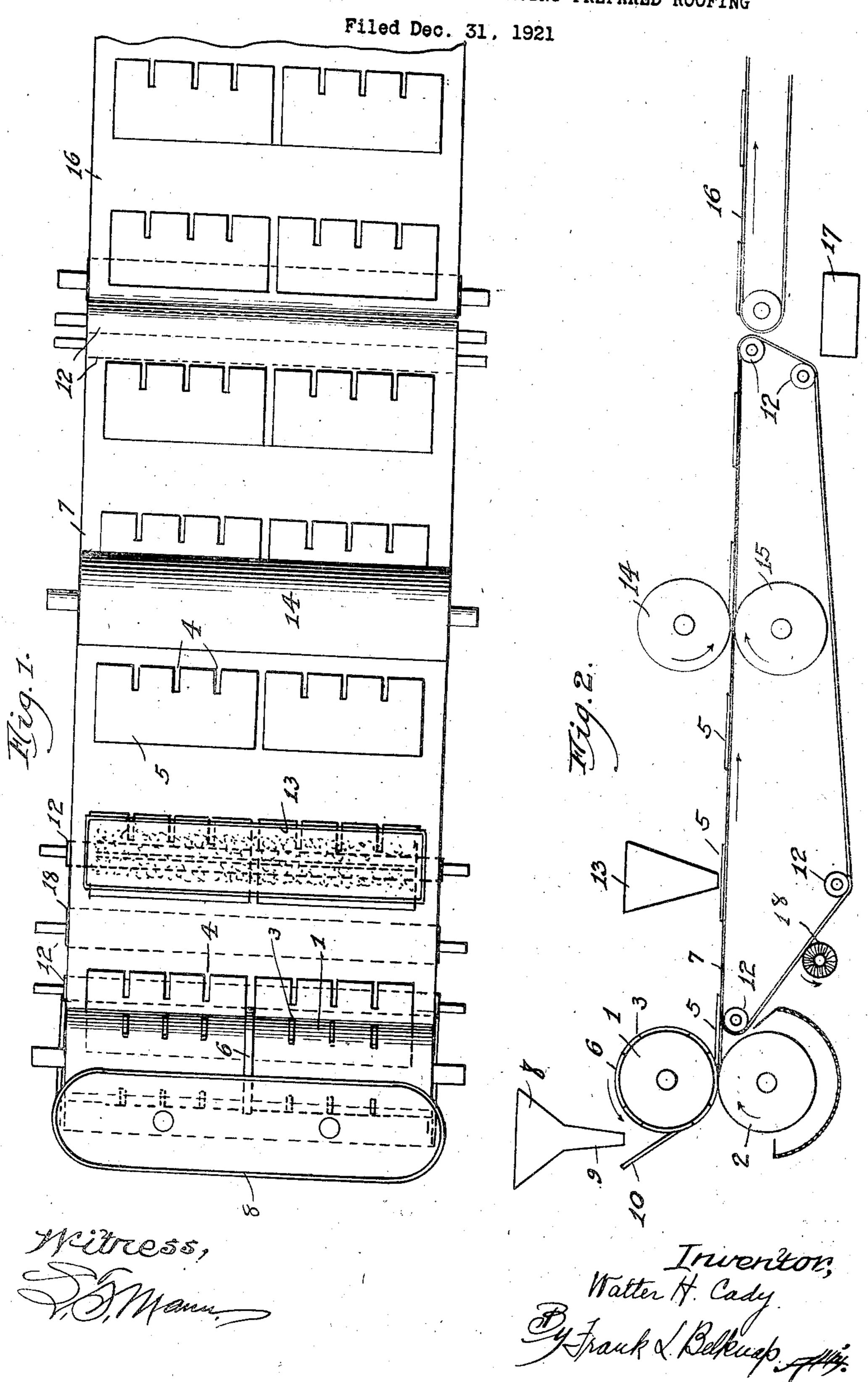
W. H. CADY

MACHINE FOR COATING AND SURFACING PREPARED ROOFING



## UNITED STATES PATENT OFFICE.

WALTER H. CADY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO FLINTKOTE COMPANY, A CORPORATION OF MASSACHUSETTS.

## MACHINE FOR COATING AND SURFACING PREPARED ROOFING.

Application filed December 31, 1921. Serial No. 526,329.

units.

tial part of the machine omitted for clear-during its passage under the hopper 13. invention.

common in the art, are introduced between 1 and 2. the rolls 1 and 2, being engaged by the up- The driving mechanism of the respective shingles as they are fed between the rolls, facing. knife 10 which serves to spread the initial coating stage. waterproofing substance evenly over the I claim as my invention: after being coated, while passing between into the coating. 55 the rolls 1 and 2 progress with the belt un-

This invention relates to a process and til they reach a position beneath the hopmachine for coating and surfacing prepared per 13. This hopper contains granular surshingles and refers more particularly to a facing material such as ground slate which process and apparatus in which prepared is fed onto the adhesive coating surface of 5 roofing in the form of strip shingles may the shingle, the excess surfacing collecting 60 be after they are formed and cut out indi- upon the belt. The shingles then pass on vidually thoroughly coated and surfaced between the pressure rolls 14 and 15 where subsequent to their being cut into shingle the surfacing material is pressed into the coating to form the completed product.

An important object of the invention is After leaving the pressure rolls, the shin- 65 the fact that all surface and edges of the gle blanks leave the endless belt and pass strip shingles are completely covered and onto a receiving belt 16 which conveys them that any waste material is recovered to be to a refrigerator. Beneath the end of the recycled in the covering of other shingles. endless belt 7 is a pan or hopper as shown Fig. 1 is a plan view of the apparatus, at 17 in which collects the excess surfacing 70 Fig. 2 is a side elevation with a substan- material which is deposited upon the belt ness in showing the salient points of the At 18 is situated a cleaning brush which is rotated in a manner to thoroughly clean the Referring to the drawings, strip shingle surface of the belt prior to its return to 75 blanks cut from prepared roofing material receive the coated shingles from the rolls

per roll by lugs 3 positioned thereon in a rolls and spools for running the belts, has 25 manner to register with the cut out portions been purposely omitted as it forms no part 80 4 of the strip shingles 5. A central guide of the invention. It is understood, however, 6 in the center of the upper roll 1 serves to that the rolls must be operated at relative properly feed the shingle units and to pre- speed so that the strip shingles will be vent their lateral displacement as they pro- properly fed and progressed at a uniform 30 gress into the endless belt 7. The strip rate through the process of coating and sur 85

are coated with a bituminous mastic sub- In this manner strip shingles which have stance such as asphalt or other waterproof- been cut from the prepared roofing sheet ing substances which are used to coat pre- may be readily coated and surfaced and all 35 pared roofing. The asphaltic coating sub-portions of the shingle unit uniformly so stance is maintained in a hopper 8 which is treated. The lugs 3 on the roll 1 in registerpositioned over the rolls so that the heated ing with the cut out portions of the shingle asphaltic coating in a fluid or semi-fluid units, keep the cut out portions free of any condition flows down through the funnel- coating material which would tend to col-40 like spouts 9 and collects behind a doctor lect as the strip shingles pass through the ex-

surface of the roll so that it will be uni- A machine for surfacing individual roofformly fed as a coating substance onto a ing strips severed from a flexible sheet of 45 strip shingle. It also prevents the collec-roofing, comprising a traveling belt for car-100 tion of accumulations of the waterproofing rying the separate shingle elements, a coatsubstance on the upper roll. Any excess ing roll for applying the waterproof bitumiwaterproofing substance will be carried off nous substance to the surface of said eleinto the lower pan or container which is ments, having lugs adapted to register with 50 situated below the lower roll. The endless notches in the roofing strips, means for ap- 105 belt 7 runs over a plurality of spools 12 plying a granular surfacing material to the and passes under a hopper 13 and between elements while carried by the belt, pressure pressure rolls 14 and 15, the strip shingles rolls for impressing a surfacing material

WALTER H. CADY.