

Aug. 18, 1925.

1,550,082

H. LINTZ ET AL

APPARATUS FOR BLANKETING NEW LAID CONCRETE

Filed Jan. 21, 1925

4 Sheets-Sheet 1

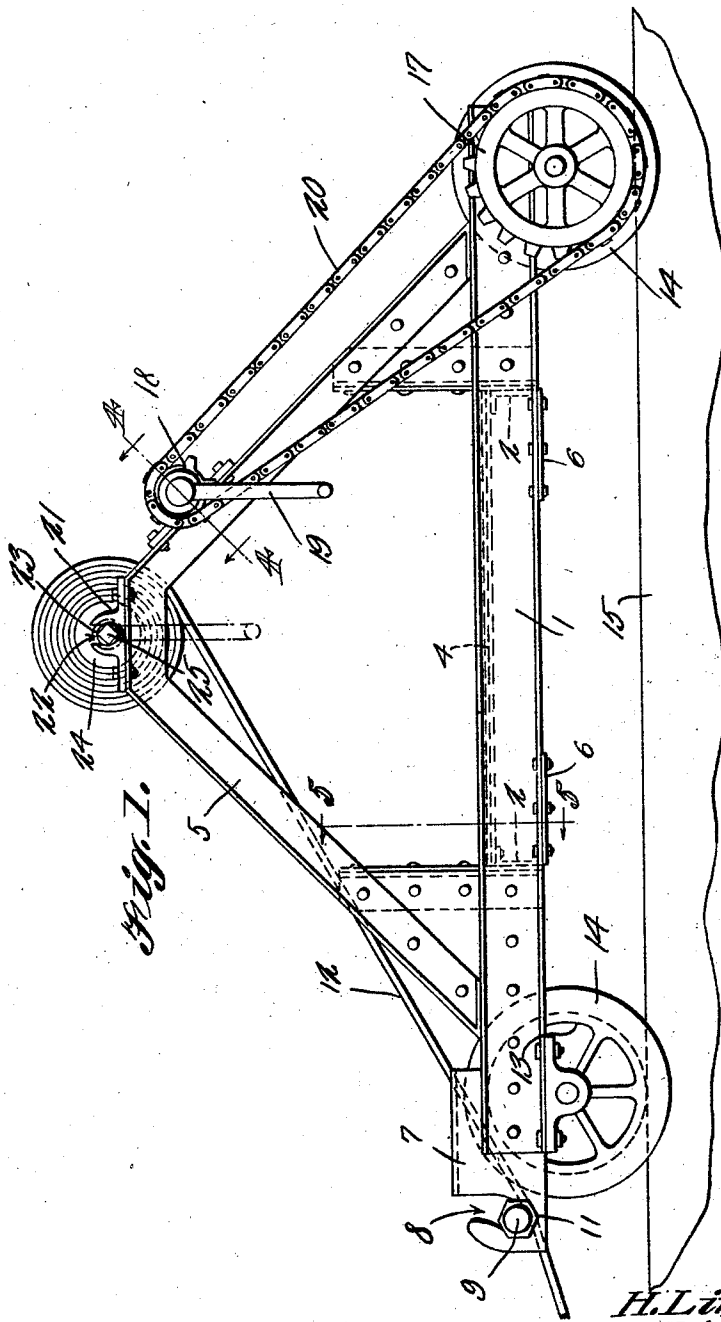


Fig. 1.

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**Aug. 18, 1925.**

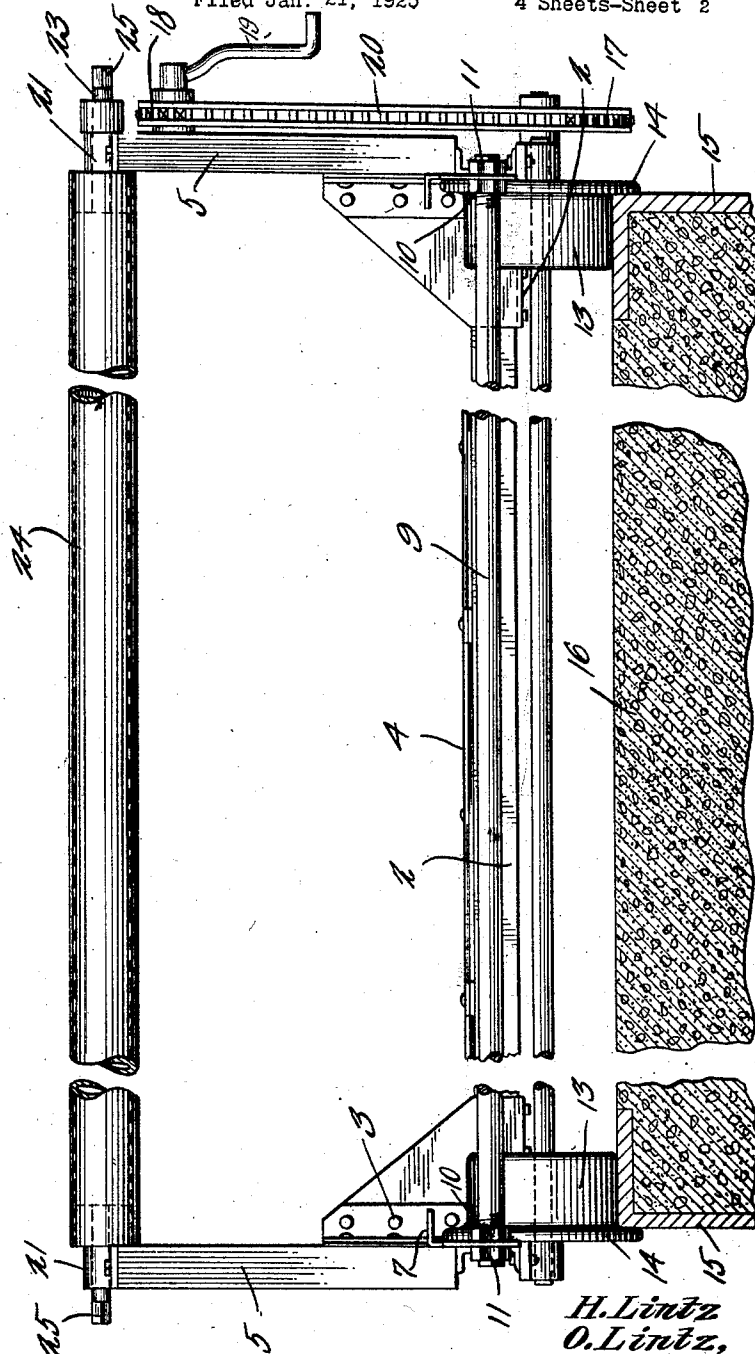
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4 Sheets-Sheet 2



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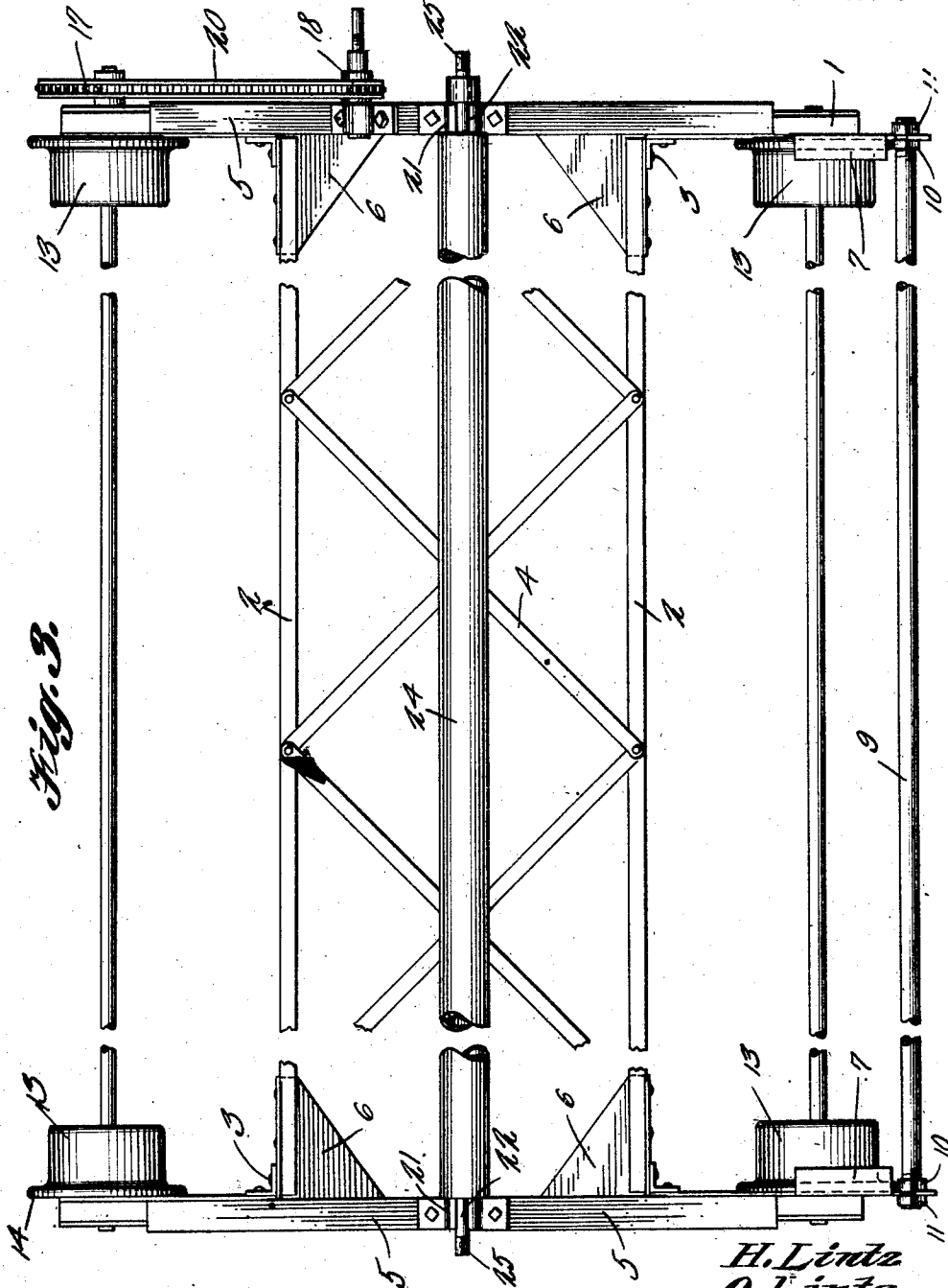
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APPARATUS FOR BLANKETING NEW LAID CONCRETE

Filed Jan. 21, 1925

4 Sheets-Sheet 3



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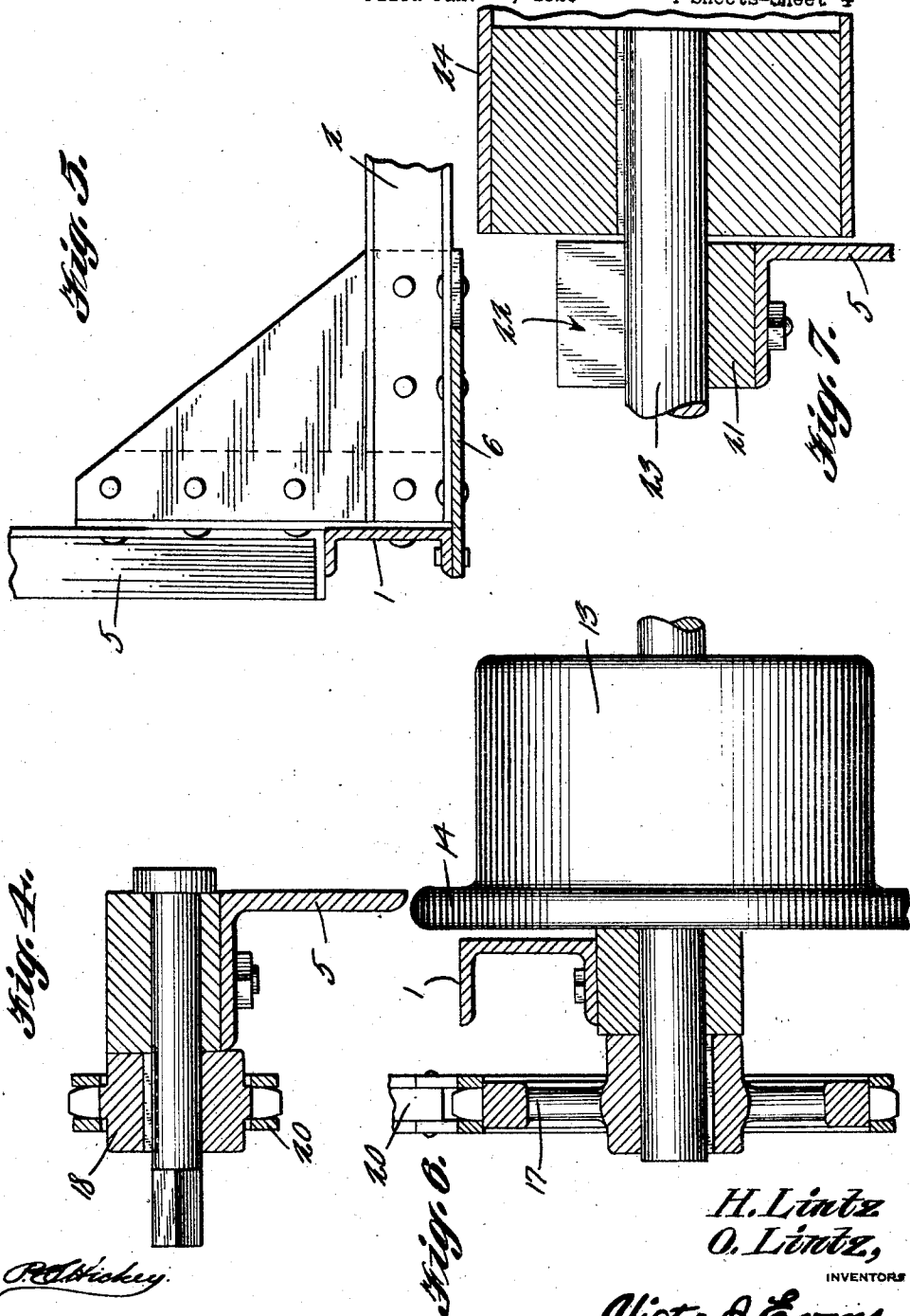
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APPARATUS FOR BLANKETING NEW LAID CONCRETE

Filed Jan. 21, 1925

4 Sheets-Sheet 4



WITNESS:

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## UNITED STATES PATENT OFFICE.

HENRY LINTZ AND OSCAR LINTZ, OF FORT BRANCH, INDIANA.

APPARATUS FOR BLANKETING NEW-LAID CONCRETE.

Application filed January 21, 1925. Serial No. 3,892.

*To all whom it may concern:*

Be it known that we, HENRY LINTZ and OSCAR LINTZ, citizens of the United States, residing at Fort Branch, in the county of Gibson and State of Indiana, have invented new and useful Improvements in Apparatus for Blanketing New-Laid Concrete, of which the following is a specification.

One object of our present invention is the provision of a portable apparatus susceptible of being readily moved, and equipped for the expeditious and easy laying or taking up of a blanket for protecting new laid concrete road construction against rain and action of the sun.

Another object is the provision of an apparatus for the purpose described adapted to serve the additional purpose of a bridge for enabling workmen to cross new concrete work without injuring the same.

Another object is the provision of apparatus for the purpose indicated that is so constructed that it can be operated with facility by a single workman.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the accompanying drawings, forming part of this specification:—

Figure 1 is an elevation illustrating one end of the apparatus constituting the preferred embodiment of our invention.

Figure 2 is a broken elevation taken at right angles to Figure 1.

Figure 3 is a broken top plan view of the apparatus.

Figures 4, 5, 6 and 7 are enlarged detail views of parts hereinafter explicitly referred to.

Similar numerals designate corresponding parts in all of the views of the drawings.

Among other elements our novel apparatus comprises a main frame which is preferably of metal and is made up of end bars 1 spaced a considerable distance apart and arranged in parallelism, longitudinal bars 2 also arranged in parallelism, and interposed between and fixedly connected at 3 to the end bars 1, braces 4 interposed between and connected to the longitudinal bars 2 and preferably arranged as shown to form a lattice work sub-frame, and end standards 5 superposed on and fixed with

respect to the end bars 1. Webs 6 are preferably interposed between and fixed to the end bars 1 and the longitudinal bars 2 as best shown in Figures 3 and 5.

Carried by each of the end bars 1 at one end of the said end bar is a plate 7 arranged in upright position and provided with a notch 8, the two notches 8 being arranged in transverse alinement and beyond the ends of the adjacent end bars 1 as best shown in Figures 1 and 3. The said notches 8 are for the reception of the end portions of a rod or bar 9 which extends throughout the length of the apparatus and at right angles to the standards 5 and is adjustably fixed to the plates 7 through the medium of inner and outer nuts 10 and 11 threaded on the threaded end portions of the rod 9 as illustrated. The covering blanket is designated by 12 and is shown in Figure 1, and it is extended below and in contact with the rod or bar 9 after the manner shown in Figure 1 with a view to lessening and practically preventing wind from getting under the blanket 12 and moving the blanket out of place incident to the winding and unwinding of the blanket. Manifestly the blanket may be of any flexible material compatible with the purpose that the blanket is to serve, namely to protect new laid concrete against rain and the action of the sun.

The frame described is wheel supported, and the wheels which are designated by 13 are provided with flanges 14, designed to cooperate with border rails 15 at opposite sides of a road of concrete 16, Figure 2, the said cooperation serving to maintain the apparatus at right angles to the length of the roadway during forward or backward traverses of the apparatus incident to the taking up or the paying off of the blanket 12.

In order to enable a single attendant to move the apparatus in either direction without the expenditure of undue effort we provide the means best shown in Figure 1, the said means including a sprocket gear 17 fixed to one of the wheels 13, a sprocket gear 18 appropriately mounted on the upper portion of one of the standards 5, a crank 19 fixed with respect to the gear 18, and a sprocket belt 20 connecting the gears 17 and 18. Manifestly by turning the crank 19 a single attendant is enabled to move

the apparatus lengthwise of the roadway without the expenditure of undue effort.

Surmounting and fixed to the standards 5 are appropriate bearings 21 having open notches 22, the said notches 22 being rounded at their lower ends and designed to receive and afford bearings in trunnions 23 at opposite ends of a roller 24. The said trunnions 23 have ends 25 of angular form in cross-section so that cranks (not shown) may be applied to the ends of the trunnions 23 for the turning of the roller 24 about its axis. The roller 24 is designed to carry the blanket 12 in rolled form so that the said blanket may be expeditiously and easily moved from one piece of work to another, and may also be moved with facility and with but little effort from one point on a roadway to another point thereof. When the roller 24 is turned in one direction the blanket 12 may be taken up on the roller, and in that way the blanket may be removed from the concrete roadway with convenience and without injury to the new laid concrete. It will be understood in this connection that as the blanket 12 is taken up on the roller 24 the apparatus will be moved toward the left in Figure 1. When the blanket 12 is to be laid off the roller 24, the blanket is carried under the rod or bar 9, and the apparatus is moved toward the right in Figure 1.

When the apparatus is arranged at right angles to a roadway as illustrated in Figure 2, workmen obviously may walk across on the bars 2 and the interposed braces so as to reach one side of the roadway from the other side thereof without injury to the fresh laid concrete.

Notwithstanding the practical advantages of our novel apparatus it will be apparent that the apparatus is simple and inexpensive in construction, and is adapted to be easily operated and is calculated to withstand for an indefinite period the usage to which road building apparatus is ordinarily subjected.

We have specifically described the preferred embodiment of our invention in order to impart an exact understanding of said embodiment. We do not desire, however, to be understood as confining ourselves to the specific structure disclosed, our invention being defined by our appended claims within the scope of which structural changes may

be made without departure from our invention.

Having described our invention, what we claim and desire to secure by Letters-Patent, is:—

1. A wheeled apparatus for use in applying a blanket to and removing a blanket from a new laid roadway of concrete or the like, comprising a frame, a roller for taking up and letting off a blanket, said roller supported in elevated position in the frame, and a bar carried in the lower portion of the frame and arranged in parallelism to said roller, said bar adapted for the passage under the same of the blanket, whereby the liability of wind getting under and shifting the blanket is lessened.

2. An apparatus for use in laying and taking up a blanket employed to protect a fresh laid roadway of concrete or the like, comprising a frame having end standards, wheels supporting said frame and having flanges, a roller mounted on the upper portions of the said standards, and a bar carried by the lower portion of the frame and arranged in parallelism to said roller, said bar being capable of vertical adjustment and being equipped for its adjustable fixture at various elevations.

3. In an apparatus for taking up and paying off a blanket for covering fresh laid roadways, the combination of a frame, flanged wheels supporting the same, standards carried at the ends of the frame, a roller carried by said standards, a bar carried by the lower portion of the frame and arranged in parallelism with said roller, a rotary hand device carried by the upper portion of one of the standards, and a driving connection intermediate of said hand device and one of the wheels.

4. An apparatus for the purpose described comprising a frame, wheels supporting the same, a roller carried by said frame and adapted to be turned by hand, a bar carried by the lower portion of the frame and disposed in parallelism to said roller, a handle on the frame, and a driving connection between said handle and one of the wheels.

In testimony whereof we affix our signatures.

HENRY LINTZ.  
OSCAR LINTZ.