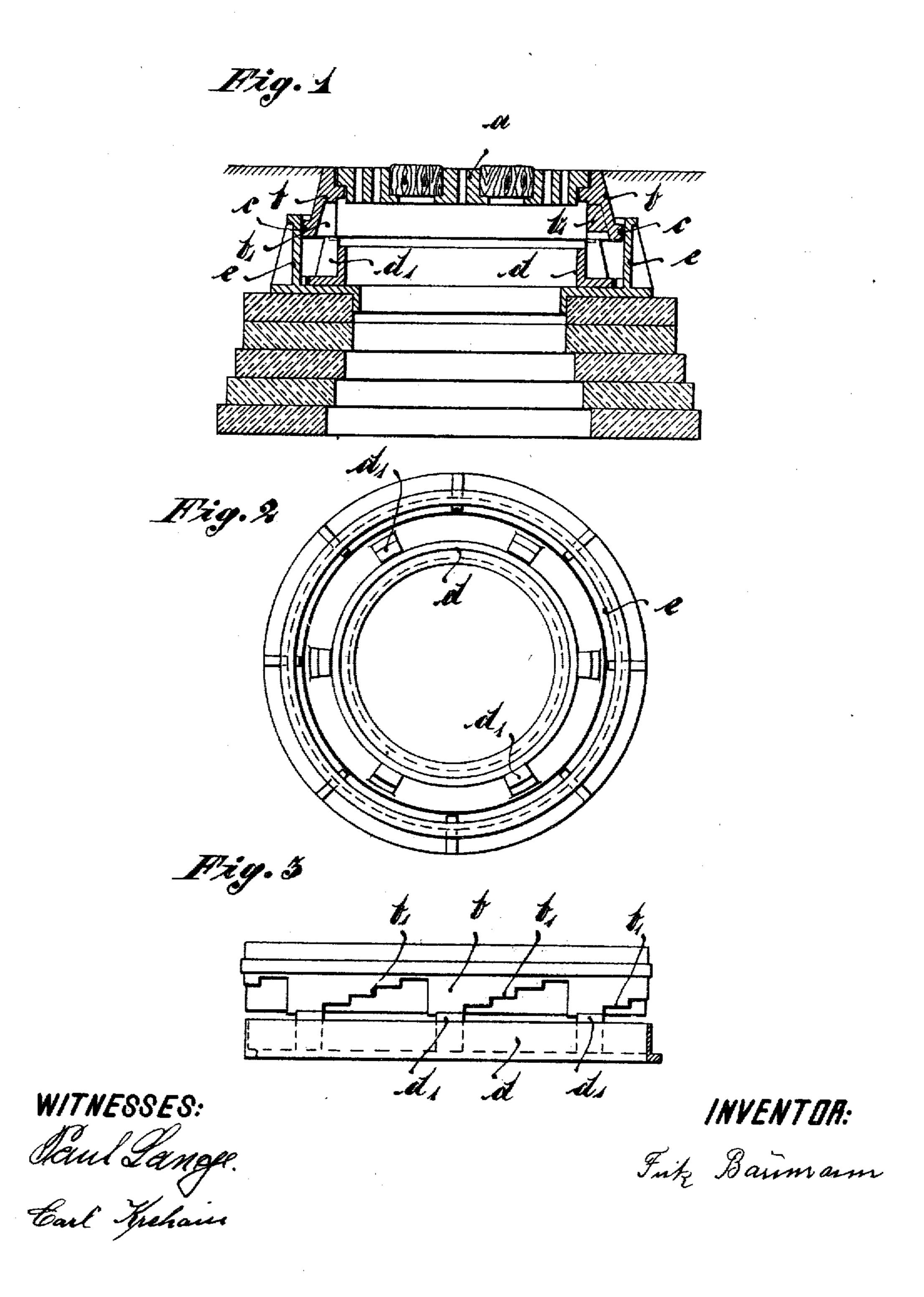
No. 814,013.

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PATENTED MAR. 6, 1906.

F. BAUMANN. COVER FOR ROAD MANHOLES. APPLICATION FILED JULY 1, 1904.



UNITED STATES PATENT OFFICE.

FRITZ BAUMANN, OF KAISERSLAUTERN, GERMANY.

COVER FOR ROAD-MANHOLES.

No. 814,013.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed July 1, 1904. Serial No. 215,010.

To all whom it may concern:

Be it known that I, Fritz Baumann, engi- | supporting-ring similarly extended. neer, a subject of the German Emperor, and a resident of 31 Logenstrasse, Kaiserslautern, 5 in the Kingdom of Bavaria, German Empire, have invented certain new and useful Improvements in Covers for Road-Manholes, of which the following is a specification.

My invention relates to improvements in to the covers of manholes or shafts in macadamized roads on which there is heavy traffic; and its particular object is to enable the manhole-cover to be adjusted in height without the road metal having to be taken up or dis-

15 turbed. In manhole-covers of the ordinary construction, comprising a cover-frame located with capability of vertical adjustment in a guide-frame, the inner wall of the latter is 20 provided with stepped projections upon which the cover-frame, presenting similar steps, rests. When it is required to adjust the height of the cover-frame, the latter has to be turned. Since, however, the friction be-25 tween the cover-frame and the well-rolled road metal is considerable, such rotary motion is seriously impeded, so that the metal must be broken up or loosened. According to my invention I overcome this inconven-30 ience by dispensing with steps on the guideframe and providing a ring inside the latter for the purpose of supporting the coverframe. By rotating this supporting-ring the height of the cover-frame can be adjusted

its axis. My invention is shown in the accompany-40 ing drawings, in which—

35 without the road metal having to be dis-

turbed, since the cover-frame merely re-

quires to be moved in a direction vertical to

Figure 1 is a vertical section of a manhole with cover, the cover-ring being shown in its elevated position. Fig. 2 is a plan of Fig. 1, the cover with its frame being removed. Fig. 45 3 is a view showing the inside of a portion of the cover-frame, which is here assumed to be opened out flat, and likewise a portion of the

The cover a may be of any ordinary construction and is carried by a frame b, resting 50 on a ring d, located inside a frame e, which affords guidance to the cover-frame b.

The inner wall of the frame b is provided with steps b' in well-known manner, while the ring d presents projections d', which in coop- 55 eration with the steps b' enable the coverframe b to be adjusted in height.

When owing to the road metal being worn down the cover a is to be lowered, the frame b should be slightly raised in any suitable 60 manner in order to relieve the ring d from its load. The ring d must now be turned into the desired position, whereupon the coverframe should be given a few blows to cause it to descend. Its conical outer wall essentially 65 facilitates the loosening of any of the road metal which may be adhering to it. A tight joint is effected between the frames b e by means of tarred rope c or like packing inserted in a groove in the lower portion of the 70 frame b, whereby dirt is prevented from getting access to the shaft of the manhole.

In event of the road being remade the cover and its frame b can be elevated again into its highest position.

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

A manhole-cover, comprising a lid, a frame carrying the same and provided with steps 80 on its inner wall, a guide-frame receiving the first-said frame, and a ring located within the guide-frame and presenting supports upon which the said stepped frame rests, substantially as described.

In witness whereof I have hereunto signed my name, this 4th day of June, 1904, in the presence of two subscribing witnesses. FRITZ BAUMANN.

Witnesses:

K. GELBERT, MICHAEL ZIMMERMANN.