

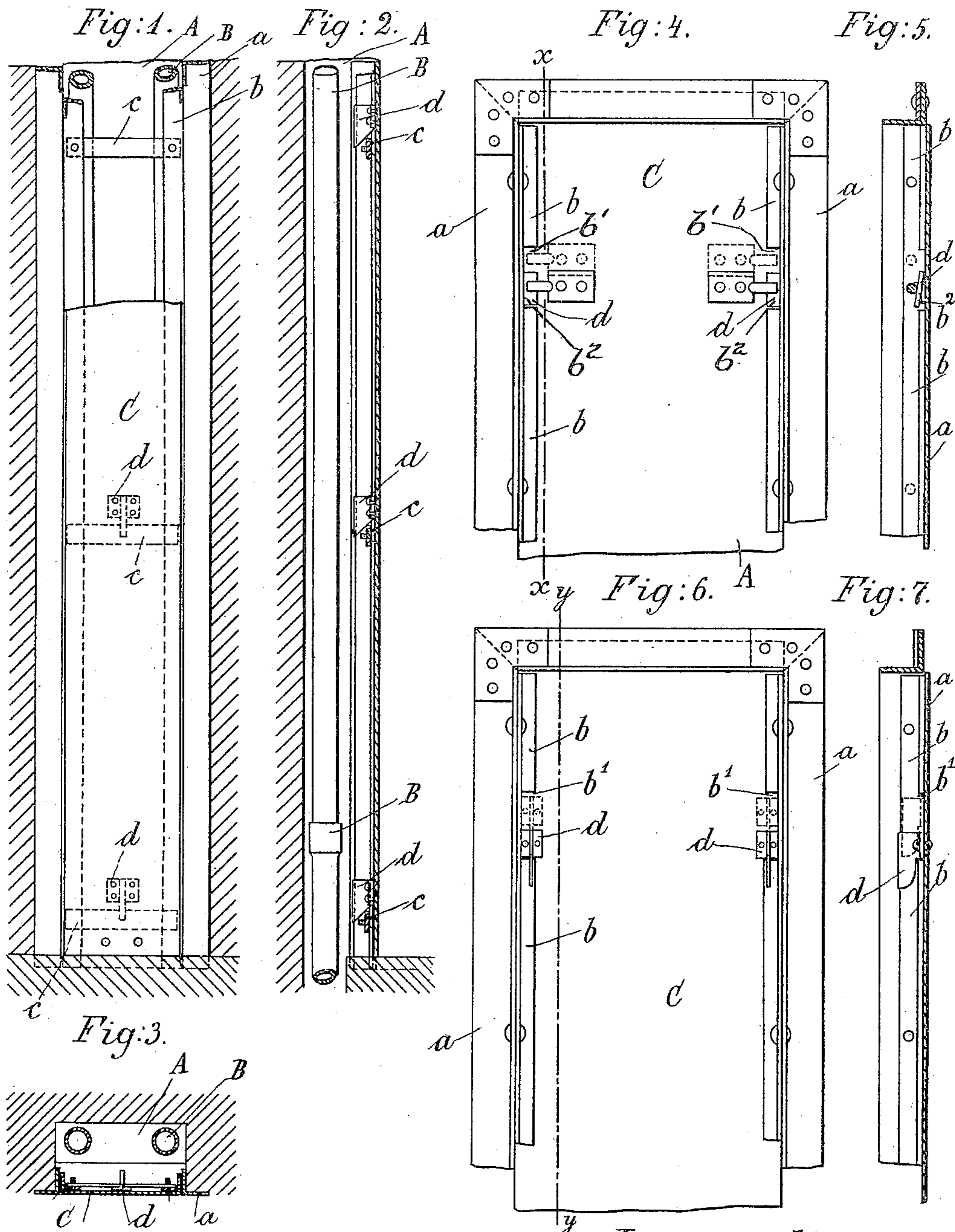
(No Model.)

D. GROVE.

COVERING PLATE FOR CHANNELS FOR PIPES, &c.

No. 604,582.

Patented May 24, 1898.



Witnesses:

E. B. Bolton

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# UNITED STATES PATENT OFFICE.

DAVID GROVE, OF BERLIN, GERMANY.

## COVERING-PLATE FOR CHANNELS FOR PIPES, &c.

SPECIFICATION forming part of Letters Patent No. 604,582, dated May 24, 1898.

Application filed October 6, 1897. Serial No. 654,289. (No model.) Patented in Germany June 2, 1891, No. 59,690, and March 3, 1894, No. 79,383.

*To all whom it may concern:*

Be it known that I, DAVID GROVE, engineer, a subject of the Emperor of Germany, and a resident of No. 24 Friedrichstrasse, Berlin, in the Empire of Germany, have invented new and useful Improvements in Covering-Plates for Channels for Pipes and the Like, of which the following is a full, clear, and exact description, and for which I have received patents in Germany, No. 59,690, dated June 2, 1891, and No. 79,383, dated March 3, 1894.

This invention relates to improvements in covering-plates of walled or other channels for pipes and the like, and relates to the devices for securing the covering-plate onto such channels. For this purpose ordinary screws, forelocks, bolts, and the like were used hitherto, which, however, have the disadvantage of easily getting rusty and partly projecting into the space in front of the covering-plate. The object of this invention is to avoid these drawbacks by means of a securing device according to which the covering-plate, on account of its own weight, is tightly connected with the walls of the channel. The securing-pieces are provided on the walls of the channel and on the covering-plate, respectively. The attachments of the covering-plate are provided with lugs or projections having inclined surfaces and fitting on or over the attachments secured to or provided on the walls, such lugs clamping the covering-plates onto the bearing-surfaces of walls without any special means by the weight of the covering-plate. In the accompanying drawings several modifications of such securing devices are shown.

Figures 1 to 3 are front elevation, vertical, and cross-sectional views, respectively, of a cover and its securing device arranged in accordance with this invention. Figs. 4 and 5 are a front elevation and section on the line  $x x$  of Fig. 4, respectively, of a cover provided with a modified construction of the securing device; and Figs. 6 and 7 are a front elevation and section on the line  $y y$  of Fig. 6, respectively, of a cover provided with another modification of the securing device.

On the side walls of the channel A for receiving the pipe B or other bodies angular

pieces or rails  $a$  are provided which are connected with smaller angular pieces or rails  $b$ . According to the modification shown in Figs. 1 to 3 connecting-strips  $c$  are arranged between the rails  $b$ .

On the rear (inner) side of the covering-plate C angular or hooked lugs or projections  $d$  are provided which, by means of inclined surfaces bearing onto or catching over the connecting-strips, clamp the covers  $c$  onto the rails  $b$ , provided at the edge of the channel A.

According to the modifications shown in Figs. 4, 5, 6, and 7 the rails  $b$  of the angular pieces or rails  $a$  are provided with slots or recesses  $b'$ , in which the lugs or hooks  $d$  of the covering-plate C are inserted. The inclined surfaces may either be arranged on the hooks  $d$  of the covering-plate, Figs. 6 and 7, or on the rails  $b$ , which in this case are preferably provided with bent projections or lugs  $b^2$ , Fig. 5. In either case the inclined surfaces and the parts of the securing device are firmly connected together or held in engagement by the weight of the covering-plate.

Having now particularly described and ascertained the nature of this invention, I declare that what I claim, and wish to secure by Letters Patent, is—

1. In combination, the channel for pipes, the angle-irons extending along the edges thereof and having engaging surfaces and the cover having the hooks or lugs to engage said surfaces, substantially as described.

2. In covering-plates of channels for pipes and the like the combination with angular pieces or rails  $a$  on the side walls of the channel A with angular pieces or rails  $b$  of connecting pieces or strips  $c$  between such rails and of hooks or lugs  $d$  on the covering-plate C, such hooks being provided with inclined surfaces substantially as and for the purpose described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

DAVID GROVE.

Witnesses:

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