J. BARLETT.

ANIMAL GUARD FOR PIPES.

APPLICATION FILED JUNE 21, 1909.

961,834. Patented June 21, 1910.

Fig. 1.

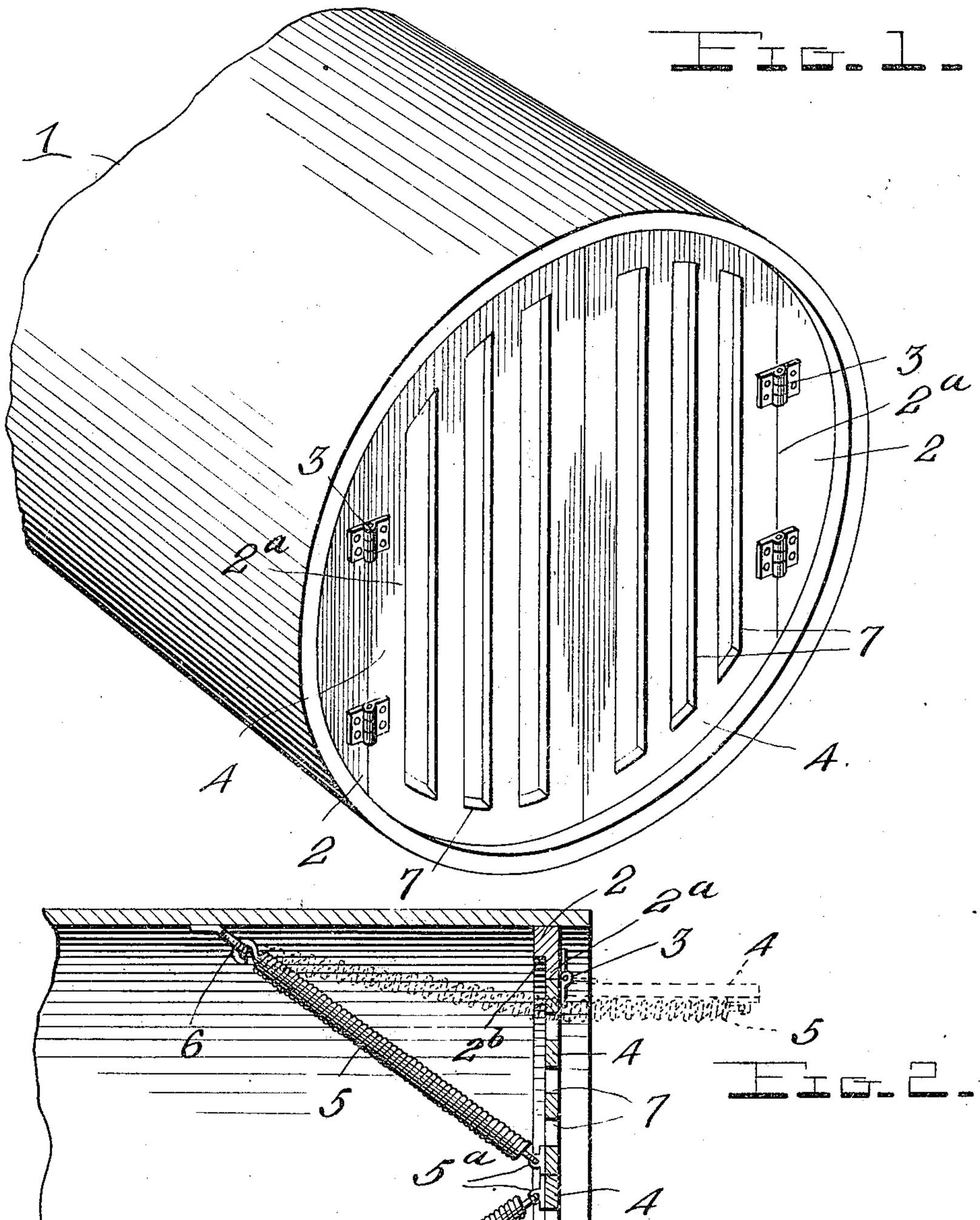

Fig. 2.

WITNESSES

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ANIMAL-GUARD FOR PIPES.

961,834. Specification of Letters Patent. Patented June 21, 1910.

Application filed June 21, 1909. Serial No. 503,497.

To all whom it may concern:

Be it known that I, JACOB BARLETT, a citizen of the United States, residing at Bryant, in the county of Jay and State of Indiana, have invented certain new and useful Improvements in Animal-Guards for Pipes, of which the following is a specification, reference being had to the accompanying drawings.

This invention is a guard for use on pipes and the like to prevent small animals and trash from entering the same and stopping them up.

The object of the invention is to provide a simple and practical automatic gate especially adapted for use on large sized drain pipes or tiles, the construction of which is such that a small quantity of water may pass through the gate without opening it but when the discharge of water is great the gate will automatically open to accommodate such discharge, the gate automatically closing when such increased discharge ceases and thereby preventing trash and dirt from backing up into the pipe and also preventing rabbits, dogs, small pigs, and other animals from entering such pipes and stopping them up.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the preferred embodiment of the invention; and Fig. 2 is a horizontal sectional view through the same.

In the drawing 1 denotes a tubular cylindrical body which may be the outlet end of a drain pipe or tire, or a cap to be applied to the same. Within the body or pipe 1 is arranged an annular stop ring 2 formed from a flat circular plate by making a substantially circular central opening which has flat upright sides edges 2^a, and by recessing the top and bottom portions of the front face of said plate or ring so that a pair of gates 4 may swing into and out of such recesses, said gates being mounted on strap hinges 3 secured to their outer sides and to the outer portions of the straight upright side edges 2^a, as clearly shown in Fig. 1. The gates 4 it will be noted are semicircular shaped so that together they close the opening in the plate 2; and they are hinged to swing outwardly, their inward swinging movement being limited by the engagement of their top and bottom edges with the recessed upper and lower portions of the front face of the plate 2, as just explained. A coil spring 5 is provided for actuating each gate to its closed position, the said springs having hooks at their ends to engage apertured brackets 5^a on the inner faces of the free edges of the gates and apertured brackets 6 on the inner wall of the body 1, see Fig. 2. The gates 4 are preferably made from metal plates and have longitudinal slots or openings 7 to permit of the escape of a small quantity of water. If desired the inner face of the plate or ring 2 may be recessed as shown at 2^b.

In operation, when a small quantity of water is discharged through the body 1 the springs 5 will maintain the gates in closed position against the pressure of such flow, the water passing through the openings 7, but when a large quantity of water is discharged the pressure of the water will swing the gates to their open position indicated in dotted lines in Fig. 2. When the gates are closed, they will effectively prevent small animals from entering the pipe and also prevent trash from backing up into the pipe and closing the same.

Having thus described the invention what is claimed is:

The herein described device comprising a tubular cylindrical body, an annular supporting and stop ring secured in the open end of said body and having the straight upright side edges 2^a in its opening, and the top and bottom portions of its outer face recessed, a pair of upright swinging gates of substantially semicircular shape and formed with openings, strap hinges secured to the outer edges of said gates and to the straight upright edges of the opening in said ring whereby the gates will swing into the recessed upper and lower portions of the front face of said ring, apertured brackets adjacent the free edges of said gates and on the interior of said body, and coil springs for closing said gates and having their ends hooked into said apertured brackets.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JACOB BARLETT.

Witnesses:
W. P. BUTCHER,
J. F. HUSTAND.