

(No Model.)

G. W. JESSUP.  
SYSTEM OF IRRIGATION.

No. 346,920.

Patented Aug. 10, 1886.

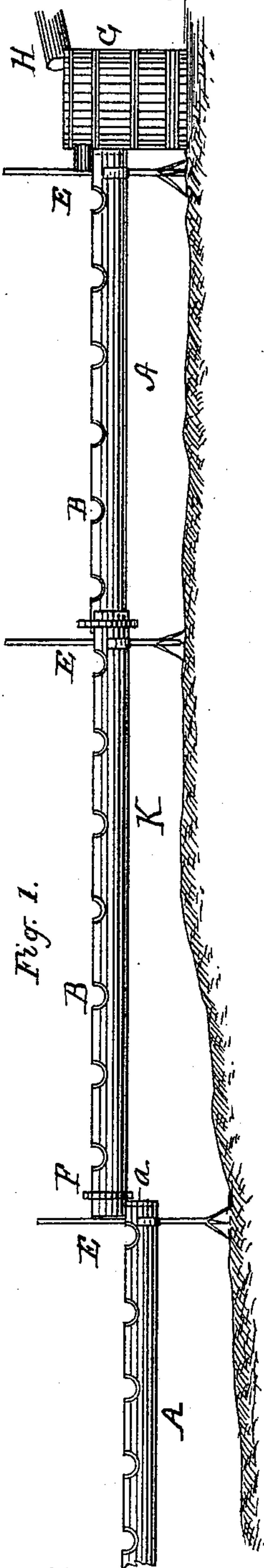


Fig. 1.

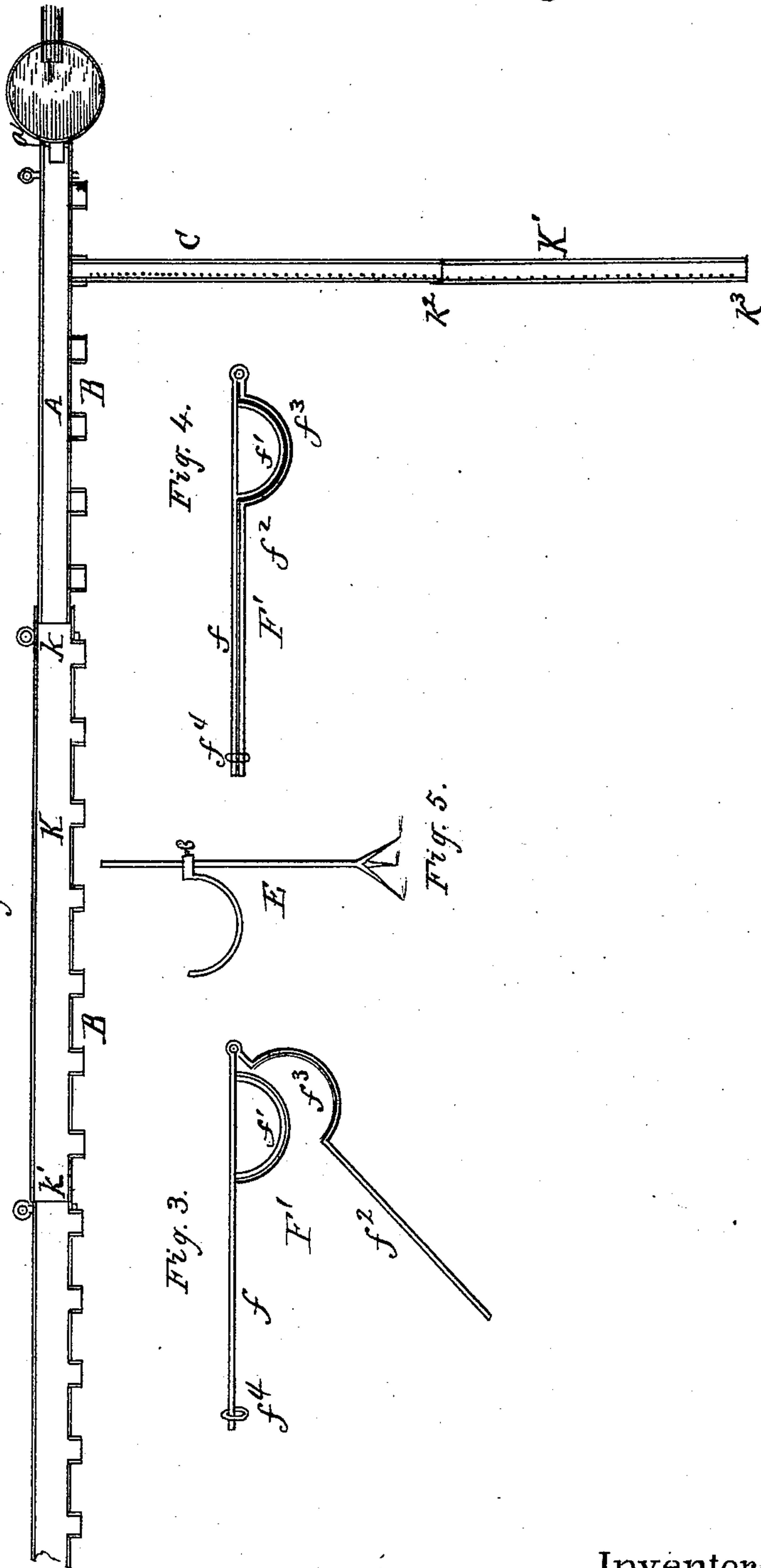


Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses

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*att'y.*

# UNITED STATES PATENT OFFICE.

GEORGE W. JESSUP, OF CINNAMINSON, NEW JERSEY.

## SYSTEM OF IRRIGATION.

SPECIFICATION forming part of Letters Patent No. 346,920, dated August 10, 1886.

Application filed July 20, 1885. Serial No. 172,113. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. JESSUP, a citizen of New Jersey, residing at Cinnaminson, in the county of Burlington and State of New Jersey, have invented certain new and useful Improvements in Systems of Irrigation; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-  
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

15 Figure 1 is a side view of the device. Fig. 2, a plan; Figs. 3, 4, and 5, details.

This invention is an improvement upon a former invention of mine, which is set forth in United States Patent No. 315,629, dated  
20 April 14, 1885, to which reference is made for a full understanding of the relation of the two devices.

In the annexed drawings, the letter H indicates the pump; G, the cask into which  
25 water is poured to prevent splashing; A, the first trough or section for receiving water from the cask; C, the secondary conduit; B, the spouts of the main conduit; F, the clamp-dams, and E the supports, all constructed  
30 and to be used as fully set forth in the patent before referred to. In using the device as thus constructed it has been found that where there is a long stretch of level ground the sections are not long enough each in it-  
35 self, and to use several sections, as described in the patent, with one end closed, such would come too close to the ground. To avoid this and render the device useful both for long as well as for short levels, I employ auxil-  
40 iary sections K. These sections are in all particulars like the sections A, except that sections K have both ends  $k k'$  open, and not one end closed, as shown at  $a$ , section A".

To hold sections A and K together with a  
45 water-tight joint, I use an improved clamp, F'. This consists of the bar  $f$ , having the curved bar  $f'$ , faced with rubber, there being an open space between the bars  $f$  and  $f'$ , forming an open clamp, and the bar  $f^2$ , hinged to bar  $f$ ,

and having a curve,  $f^3$ , corresponding to the  
50 bar  $f'$ , and also faced with rubber. The two bars  $f f^2$  are held by a ring,  $f^4$ . In use the outer open end of section A is placed on one of the ends of the section K, and the two supported by the support E. The ends are then  
55 clamped together by the clamp F'. As many of these sections may be provided and used as the length of level may demand. At the end of the level and the extended trough thus formed the second section A is to be used, as  
60 already set forth in the patent. In like manner I provide auxiliary sections K' for the secondary conduit C, such sections K' being in all particulars like sections C, except that  
65 both ends  $k^2 k^3$  are open. These sections K' are used with sections C as sections K are with sections A, the clamps F' being of a size to fit the sections C and K', and auxiliary sec-  
70 tions may be made for a tertiary conduit, if such be used.

It is thus obvious that with this improve-  
70 ment the system can be used with ground of any nature. If the levels be short, only one section is used. If they be long, each conduit can be lengthened out by using any number  
75 of auxiliary sections.

Having described my invention, what I claim is—

1. A system of irrigation consisting of a trough, A, having a closed and an open end and  
80 spouts along one side, and an auxiliary trough open at both ends and having spouts along one side, as set forth.

2. The clamp F', consisting of the bar  $f$  and curved bar  $f'$ , there being an open space be-  
85 tween them, and the bar  $f^2$ , having the curve  $f^3$ , as set forth.

3. In a system of irrigation, the trough A, having one end closed, the other open, and  
90 spouts on one side, and the trough K, having both ends open and spouts on one side, in combination with an open clamp, as set forth.

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

GEORGE W. JESSUP.

Witnesses:

JONES YERKES,

GEORGE D. BURR,