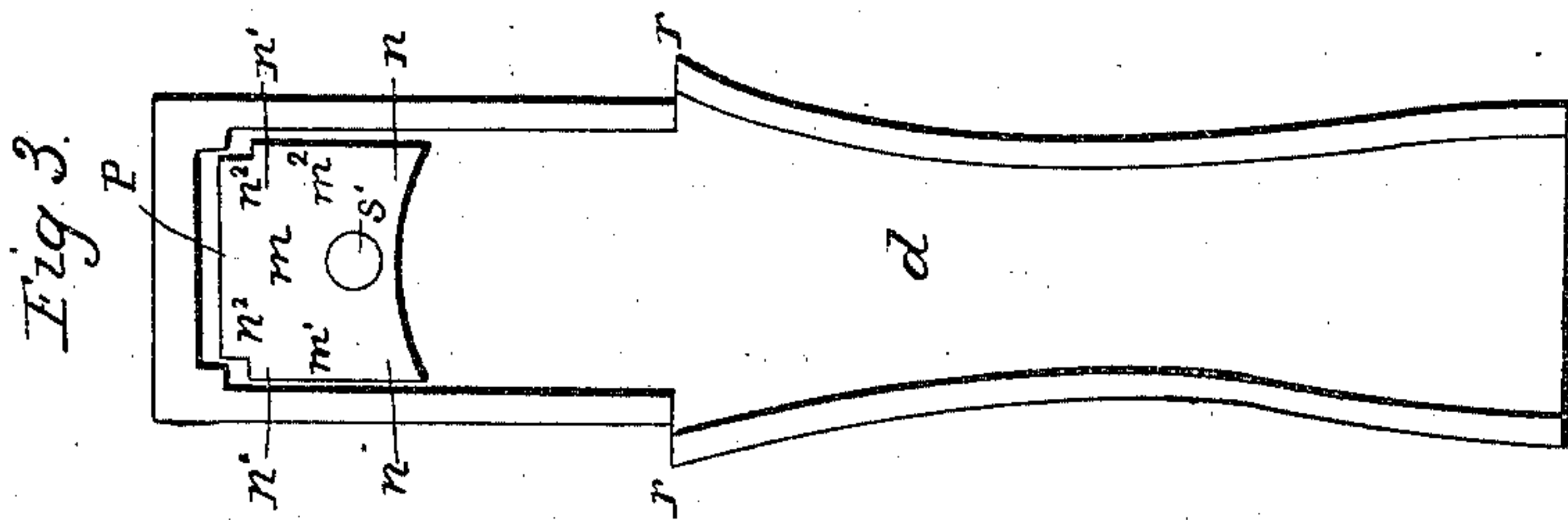
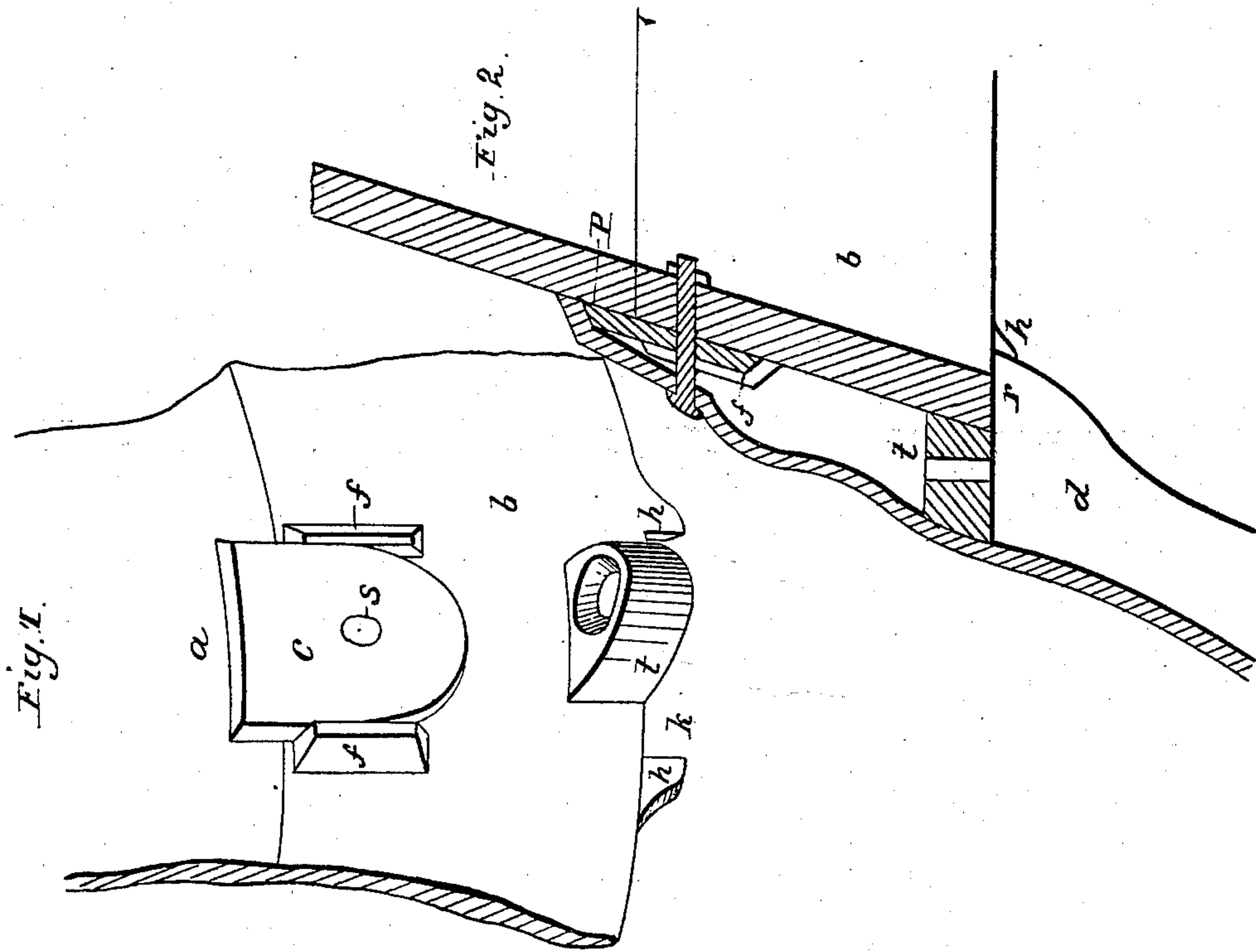


R. F. MAYNARD.
Corn and Cob Mill.

No. 16,987.

Patented April 7, 1857.



UNITED STATES PATENT OFFICE.

RICHARD F. MAYNARD, OF BALTIMORE, MARYLAND.

SECURING THE LEGS OF SECTIONAL CORN AND COB MILLS.

Specification of Letters Patent No. 16,987, dated April 7, 1857.

To all whom it may concern:

Be it known that I, R. F. MAYNARD, of Baltimore, State of Maryland, have invented an Improved Corn and Cob Mill, and that the following is a full, clear, and exact description of the principle or character which distinguishes it from all other things before known and of the usual manner of making, modifying, and using the same, reference being had to the annexed drawings, of which—

Figure 1 represents a detached part of the hull of the mill; Fig. 2, a section through the line $x-x$ of Fig. 1 showing also the section of Fig. 3; Fig. 3, an exhibit of the inner parts of the leg d .

My invention consists in an improvement in the construction of corn and cob mills whereby the various parts can be secured to each other so as to combine great strength with facility of the operation and diminished expense. In order to make these mills conveniently portable, and to give facility in casting, the concaves are made in two or more parts and these are usually secured together by flanges and screw bolts.

In my mill the concave is cast in two parts a , b as seen in Figs. 1 and 2. These parts are secured together as follows: projecting from the part a are lugs c there being as many lugs as there are legs d upon which the mill is to be supported. These lugs have beveled edges and are adapted to pass between the wings f cast upon part d , these wings also being beveled on their inner edges so as to bind and hold firmly the lugs c . From the lower edge of the part b project ears h , h , which have their inner edges

beveled as seen in Fig. 1, so as to present an opening k flaring inwardly. The legs d are cast concave-convex as shown in Fig. 3. At the upper part of the concavity there are bearing surfaces m m^1 m^2 adapted to bear upon the outer face of lugs c and outer edges of wings f , and bearing edges or flanges n , n , n^1 , n^1 , n^2 , n^2 , p , adapted to bear respectively upon the outer and upper edges of the wings and outer and upper edges of the lugs. Upon the legs at r , r' , are two flaring shoulder pieces adapted to pass between and be secured by the beveled edges of the ears h , h . There are bolt holes in the part b corresponding to holes s , s' in the lugs and upper part of the legs.

When the parts are bolted together it will be seen that by means of the bearings of the lugs, wings, and ears upon the corresponding parts just described of the legs, and further the bearing of the shoulder piece of the leg against the lower edge of b , the parts a and b and the legs are all held together with one bolt to each leg in the most simple and effective manner. The projecting pieces t make no part of this fastening, being merely to sustain by means of screw bolts cross pieces which support the step of the mill not necessarily shown in this connection.

What I claim as my invention in portable corn and cob mills is—

The mode herein set forth of securing the legs and the parts of the concave together.

R. F. MAYNARD.

Witnesses:

WM. H. HAYWORTH,
R. T. CAMPBELL.