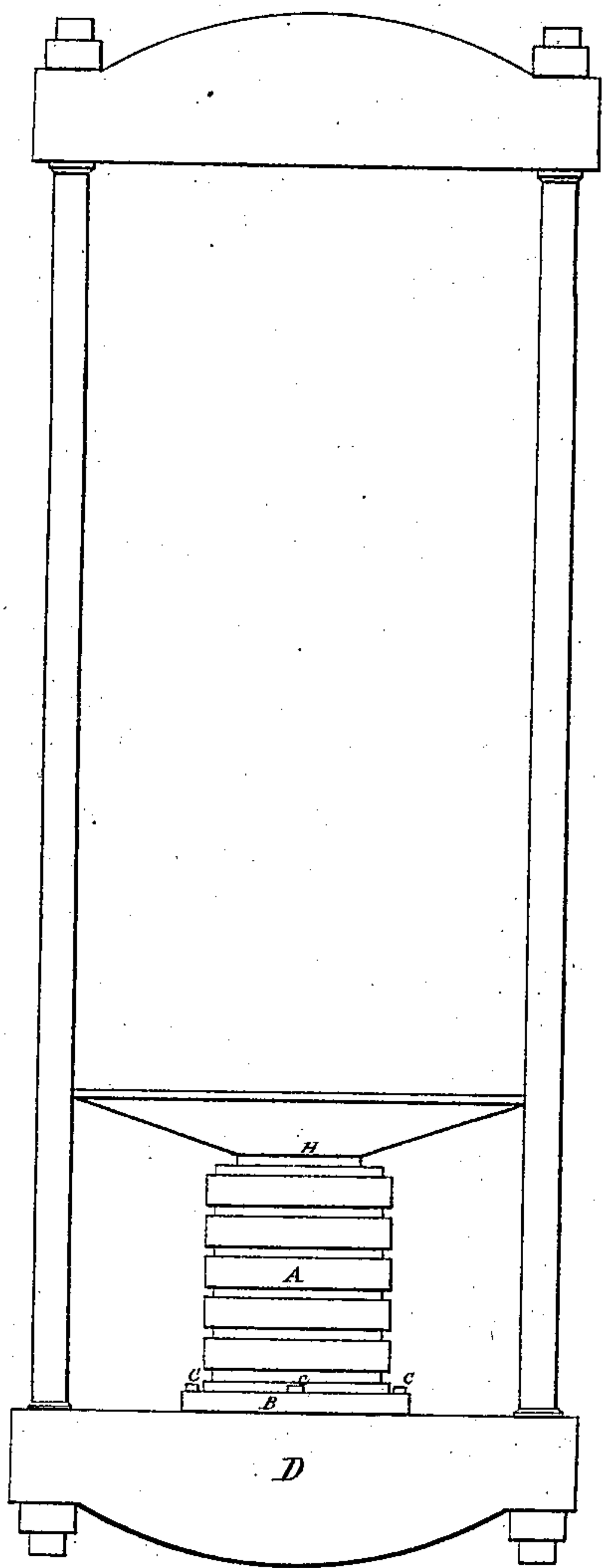


*T. Baxter,*  
*Hydraulic Press.*

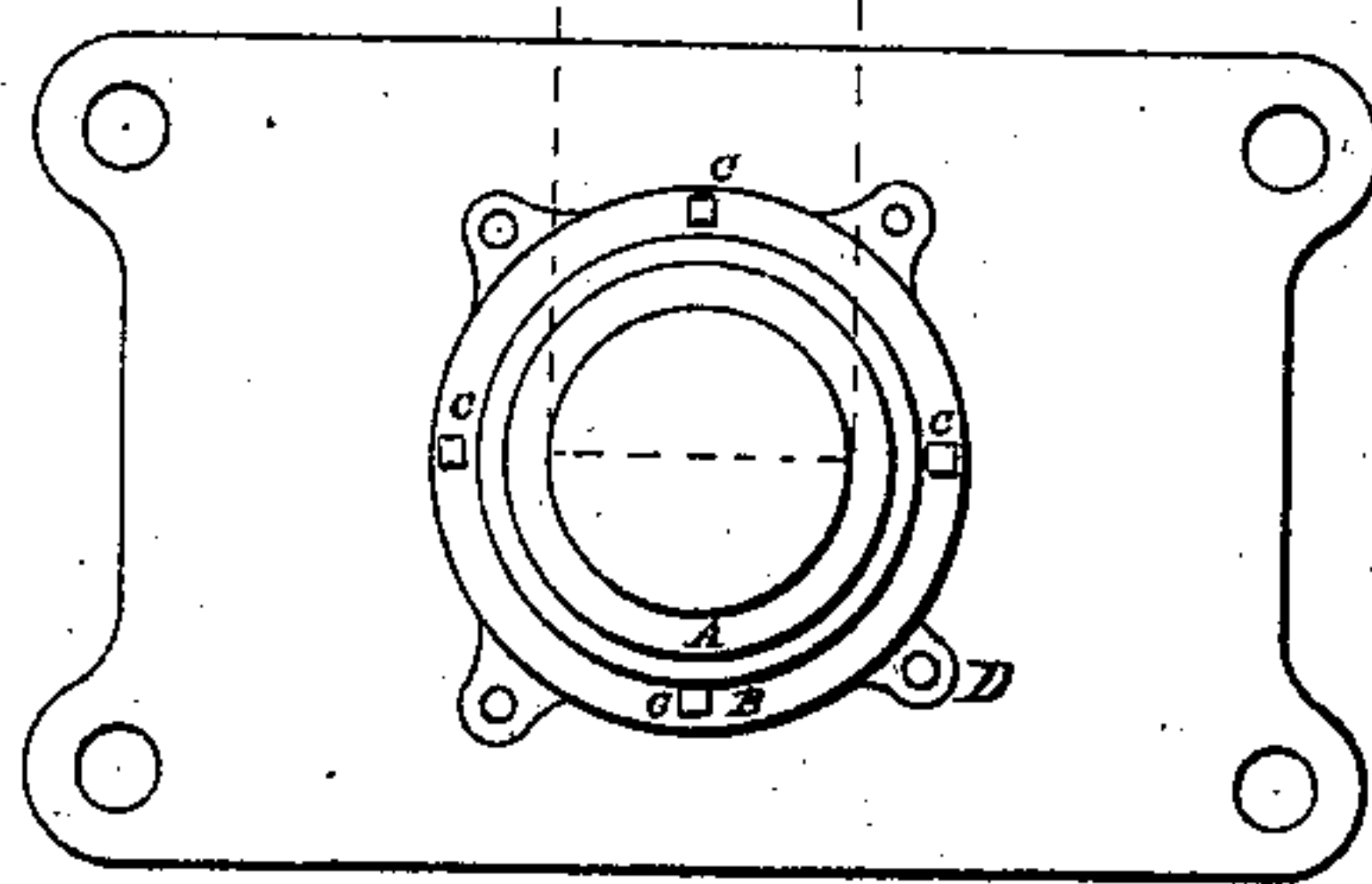
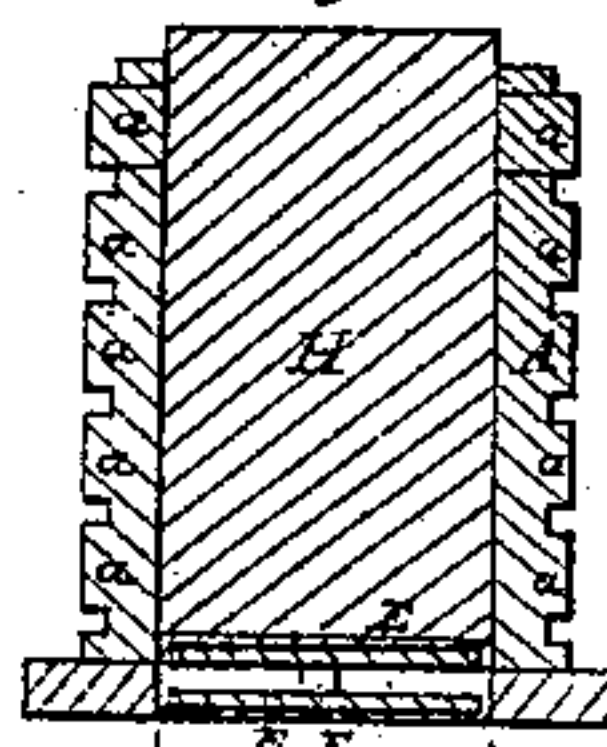
*N<sup>o</sup> 23741.*

*Patented Apr. 19, 1859.*

*Fig. 1*



*Fig. 3*



*Fig. 2*

*Witnesses*

*A. K. K. K.*  
*Wm. Lynch.*

*Inventor*

*Thos. Baxter*

# UNITED STATES PATENT OFFICE.

THOMAS BAXTER, OF PETERSBURG, VIRGINIA, ASSIGNOR TO WM. H. BAXTER, OF  
SAME PLACE.

## HYDRAULIC PRESS.

Specification of Letters Patent No. 23,741, dated April 19, 1859.

*To all whom it may concern:*

Be it known that I, THOMAS BAXTER, of the city of Petersburg and State of Virginia, have invented a new and Improved  
5 Mode of Constructing the Cylinders of Hydraulic Presses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters of  
10 reference marked thereon.

The nature of my invention consists in casting the barrel of the cylinder separate from the head thereby allowing the thickness to be much less in consequence of all  
15 longitudinal strain being overcome and at the same time the quality of the casting is improved being more dense. Wrought iron bands are shrunk on the casting to increase its strength. It is not necessary that the  
20 bands should be in contact with each other. The cylinder A is cast with a flange B or ears at one end through which the bolts or dowels C pass by which it is confined in its position on the lower head of a press D.  
25 The cylinder is bored smoothly of the same size throughout its whole length except about one inch of the upper end which is slightly enlarged to facilitate the entrance of the ram after the packing has been affixed  
30 thereto. The lower end of the cylinder is turned smoothly and at right angles to its

axis. The surface of the lower head of the press is as true a plane as possible where the cylinder is to be placed.

To put the cylinder together it is only necessary to place the barrel on the head and bolt it in position by bolts passing through the flange or ears into tapped holes prepared in the head then the packing E composed of leather india rubber or other suitable material which covers the bottom of the cylinder  
40 and turns up against the inner surface of the barrel and an iron plate of thickness proportioned to the size of cylinder is placed in its position and fastened by a screw-bolt  
45 through its center. The ram is packed in the same manner. When the ram is put into the cylinder it is prevented from descending too far and injuring the packing by the heads of the bolts F. The water  
50 from the force pumps is introduced into the space between the packings.

What I claim as my invention and desire to secure by Letters Patent is—

The making the cylinders of hydraulic  
55 presses in a manner substantially as described.

THOS. BAXTER.

Signed in the presence of—

DANIEL HALSEY,  
HENRY I. LYNCH.