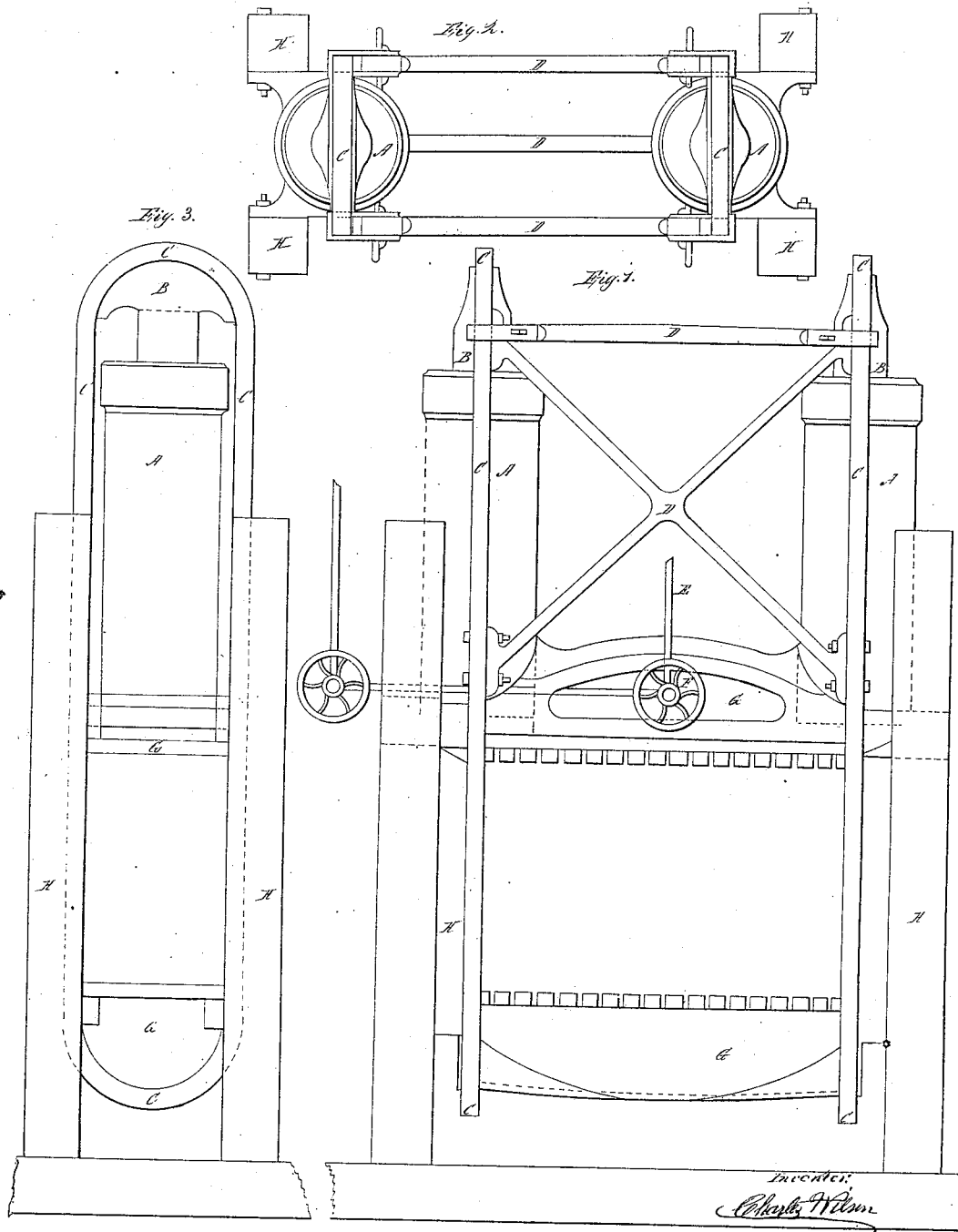


*C. Wilson*  
*Hydraulic Press,*

*N<sup>o</sup> 6,776.*

*Patented Oct. 9, 1849.*



# UNITED STATES PATENT OFFICE.

CHS. WILSON, OF WILLIAMSBURG, NEW YORK.

HYDRAULIC PRESS FOR COTTON, &c.

Specification of Letters Patent No. 6,776, dated October 9, 1849.

*To all whom it may concern:*

Be it known that I, CHARLES WILSON, of Williamsburg, in the county of Kings and State of New York, have invented a new and useful Improvement on the Form and Structure of the Cotton-Press, which I denominate the Double Hydrostatic Press; and I do hereby declare the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a front elevation, Fig. 2 a vertical, and Fig. 3 an end view of the press.

The letters refer to the same parts of the press in all the figures.

A, A, represent two hydrostatic cylinders; B, B, their respective rams, with heads cast on them in form of half a circle; C, C, connecting rods, or links which encircle the heads of the rams, and the ends of the lower platen; D, D, adjusting rods, and cross braces, to secure the parallel positions of the rams, and platens; E, E, pipes to conduct the water from the pumps to the cylinders; F, F, stop cocks; G, G, platens; H, H, wood frame in which the press is placed.

The operation of the single hydrostatic press, is imperfect, because the unequal thickness, or uncentrical position of the bale inclines the ram to one side, and causes it to move in metallic contact with the cylinder, with much friction, defacing and wearing out its surface, cutting the packing, and in one instance breaking a twelve inch ram, in two pieces, in consequence of said inclination.

The operation of the double hydrostatic

press is more perfect because the rams being connected at their heads with the endless links or straps so as to leave no play at that point, are made to move in direct lines, in contact only with the leather packings, which improve their surface by use, and render the packings reliable without being changed for years. Much unnecessary friction is prevented, and the practical operation of this form of press has demonstrated the fact that it performs an equal amount of work, with three fourths the power required by the single cylinder press.

The connection of the lower platen with the heads of the rams by the endless links, enables me to dispense with the use of the upper cross head, and the connection of the two rams, by the adjusting rods, and cross braces, preserves the parallel vertical and horizontal position of the rams, and platens, and the bale is reduced to an equal thickness at both ends.

This improvement renders the hydrostatic press, comparatively free from the apprehension of danger, either of its being broken, or worn out.

What I claim as my invention and desire to secure by Letters Patent, in the double hydrostatic press, is—

Connecting the two rams substantially in the manner set forth, so that they shall operate together, and with equal effect upon the platen of the press, all as set forth.

CHARLES WILSON.

Witnesses:

J. M. BALDWIN,  
H. A. AVERY.