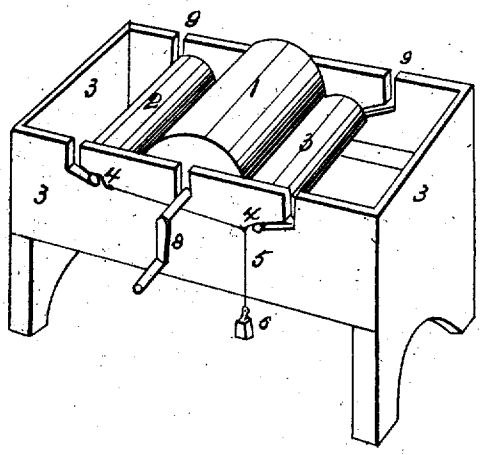
7683X

B. Hinkley,

Washing Machine,

Patented July 23, 1833



7/23/1833 7683x

July 23 1833

Benjamin Hartley

Steam Engine.

To the Honble Secretary of the Commissioners for Patents.

Sir I should be obliged to you if you would lay before the Commissioners for Patents the following description of my improvement in the working of steam engines.

Figs. 1. 2. 3. 4. of the drawing annexed and now referred to as making a part of this description, represents the box into which the steam is admitted to operate. This may be three feet long one foot and a half wide and one foot deep standing about two feet and a half high. In the centre of the side pieces of the box two grooves fitted with two small blocks and represented at Fig 7. are cut about an inch wide, and four inches deep, to let in the shaft of the main cylinder, one end of which shaft is bent up to form a crank Fig 8. Fig 1. of the drawing represents the main cylinder to be two inches in diameter and eighteen inches long. Figs. 1. 2. of the drawing represents two small cylinders about four inches in diameter, and the same length of the main cylinder & one of them on each side of the main cylinder. The small cylinders are connected by gudgeons headed and screwing out from the sides of the breast work on each. On these gudgeons are placed the levers Fig 4. one on each. A line fig 5. is fastened into a hole of one of these levers and runs thro' the top of the other of these levers and is drawn down by a weight. Fig 6. Suffers nothing to keep the small cylinders pressed against the large cylinder. Grooves g. g. running in an angle of about ninety degrees, and to the same depth of the groove for the main cylinder, are prepared for the gudgeons of the small cylinders to work in. The box is filled with warm water as high as the bottom of the small cylinders. The clothes are laid on to the large cylinder and the crank is turned, changing the motion backwards and forwards so as to clean the clothes. The lye may be occasionally steamed. What I claim as my discovery is the mode of applying the steam to the three cylinders laying horizontal and the general arrangement of the machine.

(Signed) Benjamin Hartley

Witness

John Day

W. H. Henderson

Sworn before me at the Office