

UNITED STATES PATENT OFFICE.

GEO. C. CHESLEY, OF ROCKYMOUNT, VIRGINIA.

PRESS.

Specification of Letters Patent No. 812, dated June 27, 1838.

To all whom it may concern:

Be it known that I, GEO. C. CHESLEY, of Rockymount, in the county of Franklin and State of Virginia, have invented a new and
5 useful machine for pressing tobacco, cotton, oil, sugar, &c., or for crushing plaster or crushing and pressing apples or any other substance requiring hard or moderate pressure by hand, steam, water, horse, or any
10 other power equal thereto.

The construction of my invention is such, that by combination of lever power, in the common lever in length and strength, and the power of the screw and wedge I can
15 press from one to any given number of hog-heads or boxes of tobacco, bales of cotton, &c., by hand, steam, horse, water or any other power equal thereto.

The frame consists of grooved uprights
20 C, one sill A, one girder D, and as many cross sills B and top girders E (the one answering to the other) as there shall be drivers or stems M. Then there is a beam F running parallel with the sill A and with
25 the girder D, thick or large in the middle, tapering to the end to any size required. This beam F has connected with it by ligature or hinge N, N an arm or arms Y, which are shouldered with tenon and which play
30 up and down in the grooves. Then to these arms are connected, a driver or stem, or drivers or stems M, which are forced perpendicularly true, upon the substance, while the beam F moves obliquely from end to end
35 alternately. When the beam, carrying the arms and drivers, is worked by hand power a lever is applied to each end of the beam with a loose band to be thrown off or on as the pressure shall require, or for dispatch.
40 When quick operation is required, the band is to be thrown on; but when hard pressure is needed, the band is thrown off, and the end of the lever is made fast by means of a pin in the sword H, the lever resting upon
45 the end of the beam F, yet made fast by means of a ligature or hinge N. On the application of hand power, the swords H, which are planted in the ground, may be used, together with the wheel, crank, and
50 "endless chain," or in any of the known ways, or means, by which hand power may be applied. Screw power may also be applied, by fronting the frame of my model with the frame of a screw, with the screw in
55 its frame, and by placing the sill A into the

screw frame and so applying screw power on each end of the beam, alternately, and by fastening the screw with the end of the beam, the beam may be screwed up or let down one end at a time, yet the arms and
60 drivers are carried perpendicularly true.

When this machine is worked by horse, steam, or water power, then a crank is used at each end of the beam, so as to play the beam obliquely, or from end to end, while
65 the arms and drivers are carried perpendicularly true.

The whole machine, with or without swords standing in house or field, may be made of wood, iron, or any other material,
70 of any size, the frame, beam or beams, driver or drivers of any length, strength, width, breadth, height, &c., and any given lever power, whether in lever, commonly so called, that is in length and strength, whether in
75 screw or wedge, may be applied to the beam, arms drivers or stems, the beam moving obliquely, while the arms and drivers or stems, with or without fixtures at the bottom for crushing and pressing, must go perpendicu-
80 larly true, to affect the substance placed thereunder. When the frame is widened, so that two or more beams, carrying the arms and drivers, or stems, can be admitted, by placing the beam to play obliquely, parallel
85 with the sill and top girder, then the ends of the beams are yoked together with a beam, bar, or rod, made of any material, and the lever connected with the beam, by band or otherwise, is placed in the center of the
90 beams, if only two beams in the frame, on or across the yoke; the yoke being fastened to the lever, and yet the yoke lies in a rolling position, across the end of the beams while the lever, thus fixed at each end of the
95 beams, can be worked as before described; or if there be three beams, then the lever is placed across the yoke, immediately at the end of the center beam, yet so fastened to the beam and yoke with ligature or hinge, made
100 of any material, as to bind the yoke and lever together, while the yoke lies in a rolling position, across the end of the beams as before described, and worked by any power, already specified, or any power equal
105 thereto.

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

The arrangement of the press, by which the arm, or arms, and driver, or drivers, are
110

George C. Chesley.
Press.

No. 812.

Patented June 27, 1838.



