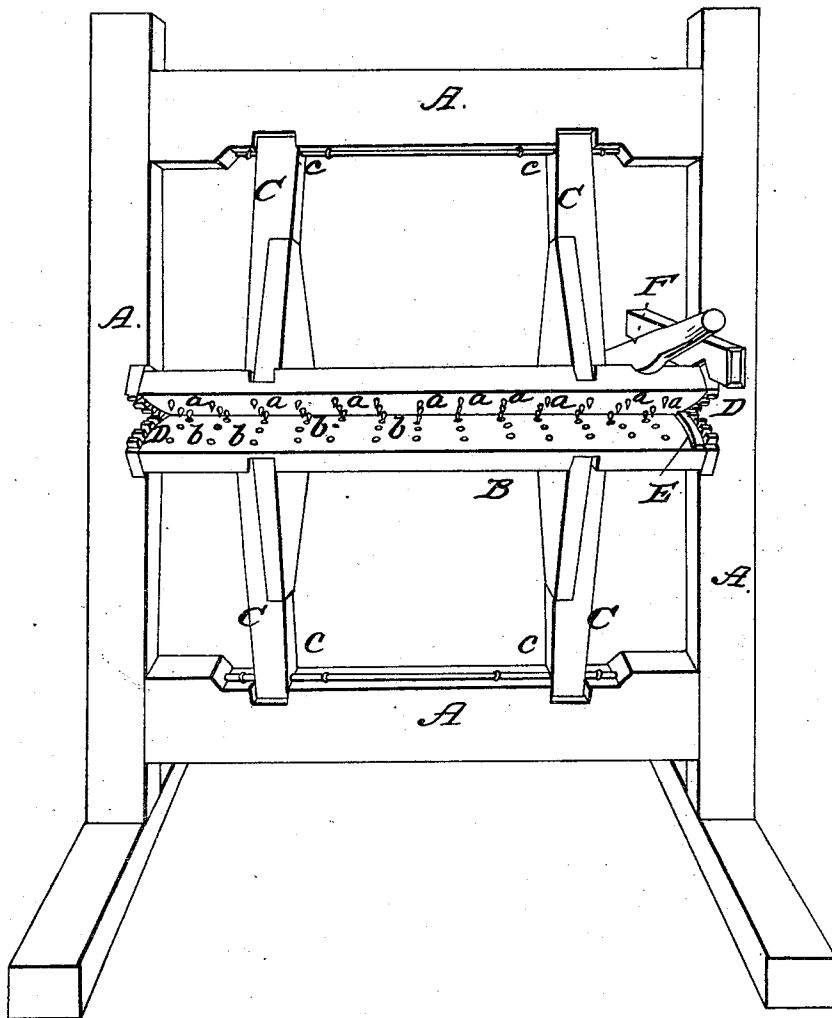


A. H. TEEPLE.

Metal Punch.

No. 4,727.

Patented Aug. 28, 1846.



UNITED STATES PATENT OFFICE.

ANDREW H. TEEPLE, OF NEW YORK, N. Y.

MACHINERY FOR PUNCHING METALLIC SHEATHING.

Specification of Letters Patent No. 4,727, dated August 28, 1846.

To all whom it may concern:

Be it known that I, ANDREW H. TEEPLE, of the city of New York, in the State of New York, have invented a new and useful Man-
5 ner of Constructing Machines for the Punching of Copper or other Metallic Sheathing; and I do hereby declare that the following is a full and exact description thereof.

In the machines for the punching of
10 sheathing heretofore used, a platen, or follower, has been brought down upon the sheets, and by means of points or punches, projecting therefrom, the holes have been punched in the sheets, but this process is
15 slow and inconvenient, much difficulty being found in the ready removal of the plates after being punched.

In the accompanying drawing I have represented my improved machine in which all
20 these difficulties are obviated.

A, A, is the frame which sustains two plates B, B which are segments of cylinders, of such length and width as are necessary to adapt them to the receiving of the sheets to
25 be punched. From one of these plates project punches, or points *a, a* and the other is furnished with corresponding holes, *b, b*. C, C, are arms firmly attached to the backs of the segment plates, and working on joint
30 bolts, or centers, at *c, c*; these bolts or centers, being in the centers of curvature of the plates B, B. These segment plates I gear together by suitable toothed segments, D, D, at their ends. E, is a gage strip to serve
35 as a guide in laying the sheets upon the machine. F, is a cross bar attached to the back of the upper segment, enabling a hand on either side of the machine to give it the necessary vibration; G, is a stop piece which
40 arrests the segment plates when they have moved to the proper distance.

In using this machine there is a person stationed on each side of it to feed on, and to remove the sheets; those fed on by one of

them being removed by the other, while a
45 third hand may be employed in vibrating the segments. The faces of the segment plates may be made either of sheet or cast iron, as may be preferred. The curved form
50 of these plates renders the punching perfectly easy, and obviates all difficulty in the removal of the punched sheets, as they are delivered on each side perfectly disengaged from the punches.

Having thus fully described the manner
55 in which I construct my machine for punching metallic plates for sheathing, and shown the operation of the same, what I claim therein as new and desire to secure by Let-
ters Patent, is— 60

The manner in which I have combined and arranged the respective parts thereof, so as to adapt it to the purpose in view; that is to say, I claim the combining and
65 arranging of the segment plates, with their punches and corresponding cavities as described, said plates being geared together at their ends, and working upon suitable centers, the respective parts operating, and being operated upon, substantially as herein
70 set forth; and I will here remark that double chains at each end, attached and arranged in a manner well known to machinists, may be substituted for the toothed gear-
75 ing; the vibration of the segments also may be effected by a crank motion, and other changes may be made in the particular manner of arranging some of the parts herein pointed out, without in any way departing
80 from the general principle, or manner of construction, upon which the value of my machine is dependent; and I do not, therefore, intend by anything herein contained to limit myself in these particulars.

A. H. TEEPLE.

Witnesses:

JOHN MCARDLE,
EDWARD W. BISHOP.