W. Wheeler,

Door Bolt.

No. 5,338. Patented Oct. 23, 1847.

Fig: 5.



Fig: 4.



Fig: 3.



Fig: 1.

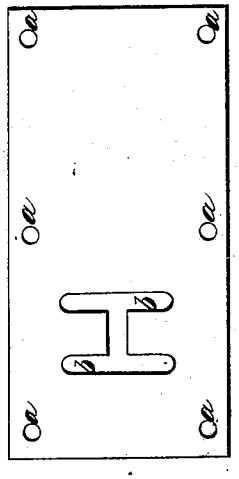


Fig: 2.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM WHEELER, OF TROY, NEW YORK.

BOLT FOR DOORS.

Specification of Letters Patent No. 5,338, dated October 23, 1847.

To all whom it may concern:

Be it known that I, WILLIAM WHEELER, of the city of Troy, in the county of Rensselaer and State of New York, have invented a new and useful improvement in the manner of constructing bolts for doors, said bolts being so made as to constitute a new manufacture; and I do hereby declare that the following is a full and exact description thereof.

Bolts for doors have been made with flat plates of wrought iron, having staples, or loops riveted in them to receive and guide the sliding bar, or bolt proper, the plate and its loops, or staples, together with a stop piece usually consisting of four pieces. In my improved manner of manufacturing bolts one single piece of sheet metal is substituted for the whole number of pieces heretofore required in the manufacturing of bolts of wrought metal, irrespective of the sliding bolt itself. There have also been manufactured door bolts of cast iron in which the plate, and loops, or staples, consisted of one piece, but these bolts are objectionable on account of the brittle nature of the material, and of the weight of metal required to give to them that strength without which they would be useless; and besides this, they cannot be afforded when brought into market at less than thirty per cent advance upon the price of the very superior article of sheet metal manufactured by me.

Although I do not make any claim whatever to the machinery by means of which my bolts are manufactured, as this is a mere modification of such as is well known to machinists, I will describe the operation so far as may be useful in guiding the workman in the most ready mode of procedure.

I take sheet iron or other malleable plates of metal, and cut it into pieces of suitable length and width; for an eight inch bolt these will be eight inches long, and about four inches wide. By means of a suitable press I then perforate these plates in the manner represented in Figure 1, of the accompanying drawing; the holes *a*, *a*, being those that are to receive the screws by which the bolt is to be attached to the door, and the H formed opening *b*, *b*, that which is to admit the shank of the knob by which the bolt is to be moved back and forth, and which opening is also to serve as stops thereto. The plate is then bent by means of a press and suitable dies into the form represented in Fig. 2, and subsequently into that represented in Fig. 3. In performing this last operation an iron bolt a trifle larger than that which is to constitute the sliding bolt is inserted along the part which is to receive said bolt, and the plate is then finished. One hand can form sixty dozen such plates in a day. The staple which is to be fastened to the door frame, is made of sheet metal bent in like manner, as shown in Fig. 4.

In Fig. 5 my improved bolt is shown in its finished state.

Having thus fully described the nature of my new manufacture of bolts for doors, what I claim as new therein, and desire to secure by Letters Patent, is—

The making the whole of the instrument, with the exception of the sliding bolt itself, and the staple that is to be fastened to the door frame, of one piece of malleable metal, by bending the same, and by making a perforation therein to receive, and to allow of the play of the knob, as herein set forth.

WILLIAM WHEELER.

Witnesses:
THOS. P. JONES,
WM. J. DONOHOOS.