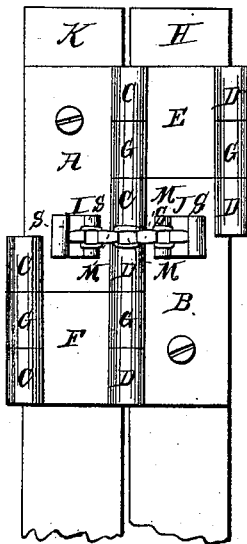
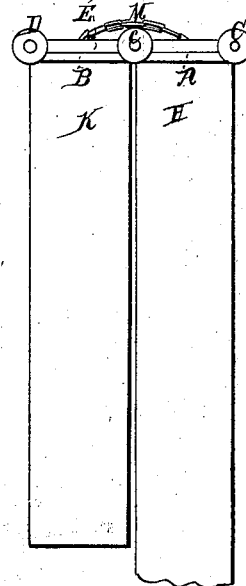


*A. B. Taft,*  
*Door Spring.*  
*N<sup>o</sup> 6,052. Patented Jan. 23, 1849.*

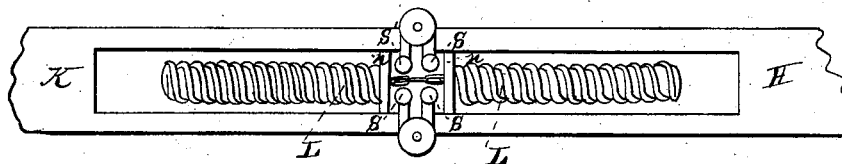
*Fig 1.*



*Fig 2.*



*Fig 3.*



# UNITED STATES PATENT OFFICE.

ANDREW B. TAFT, OF NEW YORK, N. Y.

## COMBINED DOUBLE HINGE AND SPRING.

Specification forming part of Letters Patent No. 6,052, dated January 23, 1849.

*To all whom it may concern:*

Be it known that I, ANDREW B. TAFT, of the city, county, and State of New York, have invented a new and useful Improvement in Hinges; and I do hereby declare that the following is a full and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a section of a double-jointed hinge on an open door, and of the casing to which it is attached by said double-jointed hinge. Fig. 2 is a horizontal section of the same; and Fig. 3 is a horizontal section of the hinge on a closed door and casing, in which are shown a hinge, chain, and two springs.

This invention consists, principally, in the construction and application of a double-jointed hinge, which admits of the opening of the door and gate or other thing (requiring to open both ways) in either direction, and in the combination of this peculiar hinge with two springs connected by a chain, whereby the door, gate, &c., is held close to the casing and also closes itself. Each hinge employed in this improvement may consist of four pieces, two of which A and B are side plates, with knuckles C C and D D attached thereto. The connecting-plates E and F have their knuckles G G connected to those of the attached plates A B, and each connects the plates A B to each other, so that when the door or hinge H is opened in the opposite direction, K being the casing or post to which the

door is connected by the hinges, the connecting-plate E changes sides and folds upon the plate A, and F folds upon B. Thus the hinge presents the same appearance in either position. Through the two attached plates are apertures I J, in the rear of which are holes made horizontally into the door and into the casing, and into these holes are inserted spiral or other springs L L. A chain or other attachment M passes through both springs, and the ends thereof are attached to the opposite ends of the springs, which are thereby held in a position partly compressed, while the centerward ends thereof press against two plates or collars W U, which are adjusted in the holes for that purpose. Small guide-rollers S S are adjusted upon centers within the apertures I J, and the chain passes between each pair of rollers and (when the door is open) over the central knuckles, as shown in Figs. 1 and 2. The springs are required to hold the door in contact with the casing and to close the door when opened in either direction.

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

Double-jointed hinges constructed substantially as herein described, in combination with a chain or cord and two springs arranged as herein set forth.

ANDREW B. TAFT.

Witnesses:

H. M. WESTERN,  
JOHN MANAGHAN.