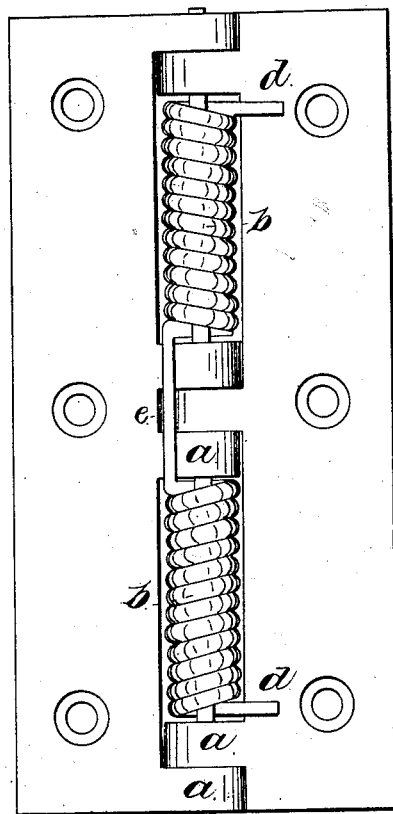


Hoyt & Bulkley.

Spring Hinge.

No 721.

Patented Apr. 28, 1838



UNITED STATES PATENT OFFICE.

DAN. A. HOYT AND PETER W. BULKELEY, OF DANBURY, CONNECTICUT.

HINGE FOR DOORS, &c., DENOMINATED THE HELICAL SPRING-JOINT HINGE.

Specification of Letters Patent No. 721, dated April 28, 1838.

To all whom it may concern:

Be it known that we, DANIEL A. HOYT and PETER W. BULKELEY, of Danbury, in the county of Fairfield and State of Connecticut, have invented a new and useful hinge for doors, which we denominate the "Helical Spring-Joint Hinge;" and we do hereby declare that the following is a full and exact description thereof.

The design of this hinge is, while it operates as an ordinary door hinge, to cause the door to close, by the action of the helical spring, which is coiled around the joint pin of the hinge.

In the accompanying drawing *a, a, a,* are the knuckles of the hinge; and *b, b,* is the helical spring, which is coiled around the joint pin, in the space, or spaces, left between the knuckles, for that purpose. These springs may be made of any suitable metal, brass, or steel, however, being preferred.

When two or more portions of the joint

pin have a spring upon them, the wire may still be in a single piece, causing it to pass over the intermediate knuckle as shown at *c*, the extreme ends bearing upon the leaf of the hinge as shown at *d, d,* or the ends being confined in any other way which may be preferred.

What we claim as our invention, and desire to secure by Letters Patent, is—

The coiling of a spring around the joint pin of door, or other hinges, in the manner set forth, such tension being given to said springs as shall cause them to close a door, or other hinged article to which it may be applied, said hinge being constructed substantially in the manner set forth.

DANIEL A. HOYT.
PETER W. BULKELEY.

Witnesses:

STEPHEN BATES,
SILAS H. HICKOK.