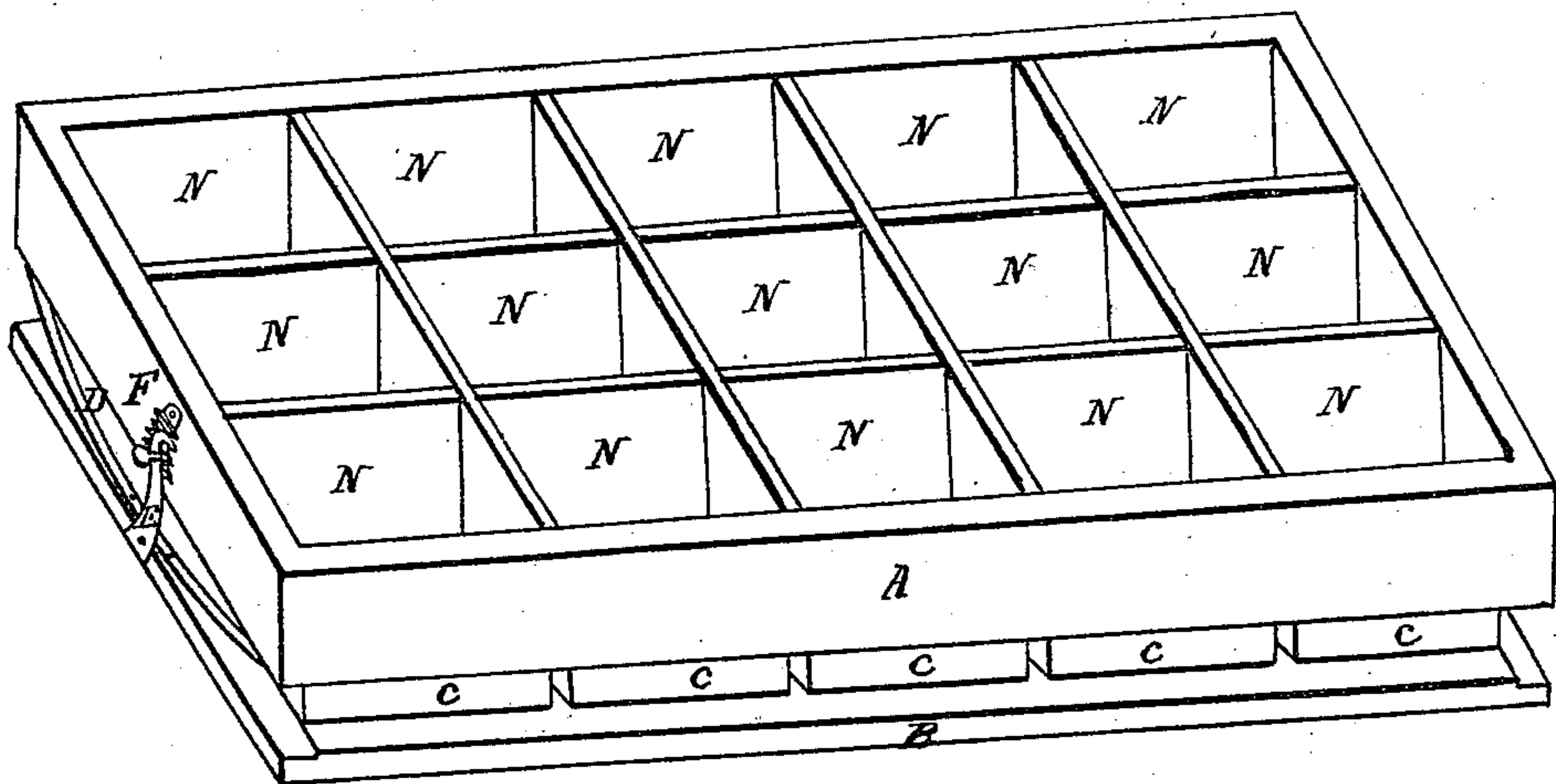


*W.M. Randall & G.C. Howard.*

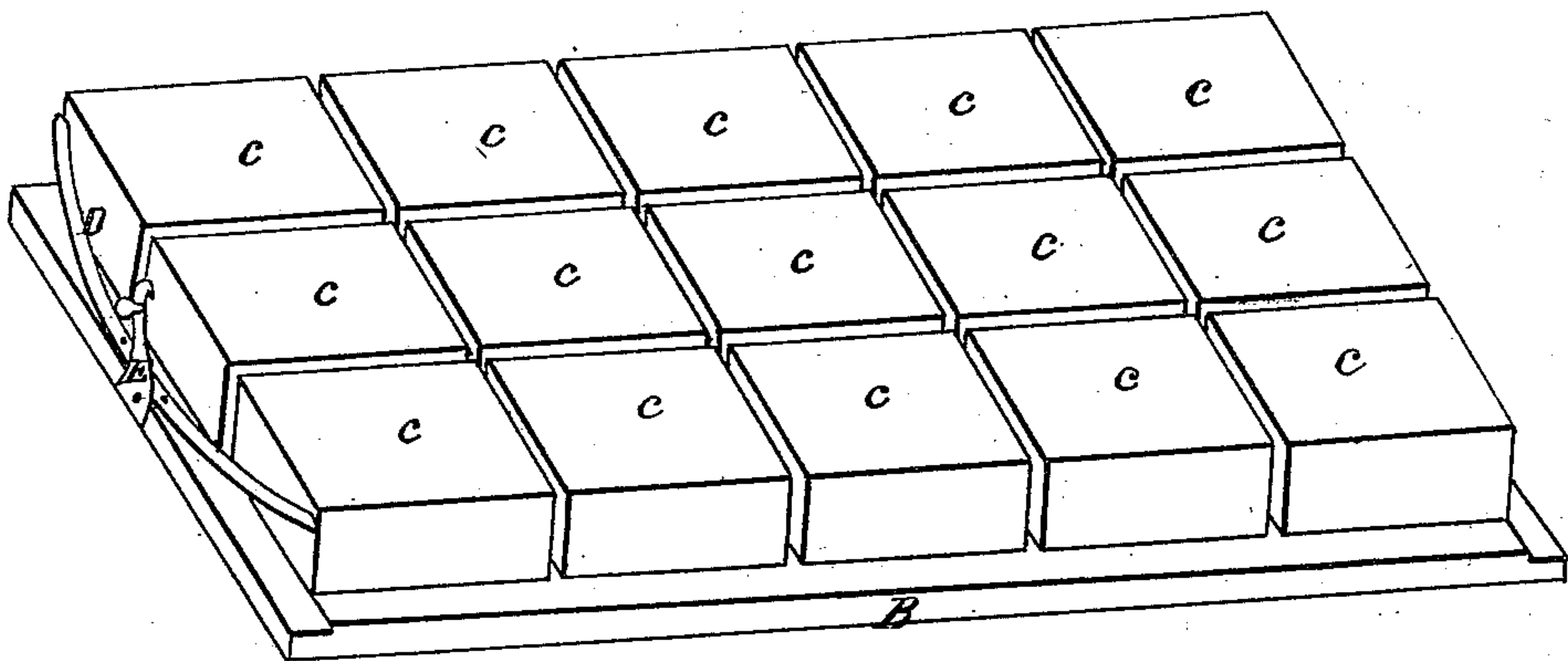
*Bottom for Type Case.*

*N<sup>o</sup> 36670.*

*Patented Oct. 14, 1862.*  
*Fig. 1*



*Fig. 2*



*Witnesses*

*Henry Howard*  
*Otis Howard*

*Inventors*

*William M. Randall*  
*George C. Howard*

# UNITED STATES PATENT OFFICE.

WILLIAM M. RANDALL AND GEORGE C. HOWARD, OF BELLEVILLE, OHIO.

## BOTTOM FOR TYPE-CASES.

Specification forming part of Letters Patent No. 36,670, dated October 14, 1862.

### *To all whom it may concern:*

Be it known that we, WILLIAM M. RANDALL and GEORGE C. HOWARD, of Belleville, in the county of Richland and State of Ohio, have invented a new and useful Bottom for Type-Cases; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in arranging a printer's type-case in such a way that each box in the case may be so adjusted to the bottom that by sliding it down it will elevate the type to the top of the case, or as high as may be desired by the compositor.

To enable others to make and use our invention we will proceed to describe its construction and operation.

Figure 1 is a perspective view of our improved case. Fig. 2 is a perspective view of the bottom detached.

We construct our type-case A, Fig. 1, in any form known excepting the ordinary stationary bottom. Instead thereof we provide bottom B, Fig. 2, which is detached from the case A, upon which we secure blocks, each marked C C, of suitable thickness, fitted and arranged to fill each box (marked N N) in the case A, but sufficiently loose to allow the case A to pass up or down over them. At the center of each end of the bottom board, B, on the upper side thereof we attach springs D, Fig. 2, the ends of which are sufficiently ele-

vated to raise the case A above the blocks, (each marked C.)

For the purpose of securing the case A at any desired height, we attach hook-springs E to the outer ends of bottom board, B, at the center, which press against ratchet-bars F, secured to each end of case A, the teeth of which slant downward, so that a light pressure on each end of the case A at the same time will depress it to any desired point, while the spring-hooks E, catching in the ratchet-bars F, hold case A in the position desired.

In order to elevate case A, the hook springs E must be drawn back from the ratchet-bars F, when the springs D will throw up case A to their full extent.

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

The application to the case A of the bottom B, arranged with blocks C C, so as to fill each box N N in the case A, as described, with the springs D and springs E and ratchet-bars F, to operate as set forth, whereby the case may be elevated or depressed as the convenience of the operator may require, all to be used in combination, for the purposes above named.

Belleville, July 7, 1862.

WILLIAM M. RANDALL.  
GEORGE C. HOWARD.

Attest:

HENRY HOWARD,  
OTIS HOWARD.