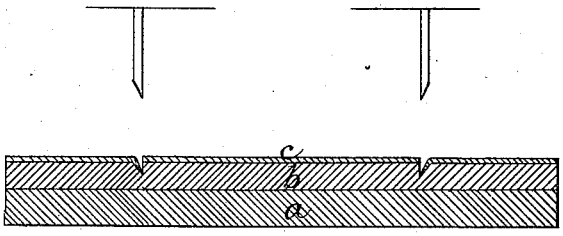
(No Model.)

H. P. FISKE.

BED FOR PAPER CUTTING DIES.

No. 344,822. Patented July 6, 1886.



Witnesses.
R. J. Powers
W. Keith Armistead

Inventor
H. P. Fiske
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Attys.

UNITED STATES PATENT OFFICE.

HENRY P. FISKE, OF BOSTON, MASSACHUSETTS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO CHARLES F. COPELAND, OF SAME PLACE, AND GRANVILLE W. DANIELS, OF SOMERVILLE, MASSACHUSETTS, TRUSTEES.

BED FOR PAPER-CUTTING DIES.

SPECIFICATION forming part of Letters Patent No. 344,822, dated July 6, 1886.

Application filed January 8, 1885. Renewed December 2, 1885. Serial No. 184,503. (No model.)

To all whom it may concern:

Be it known that I, HENRY P. FISKE, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Beds for Paper-Cutting Dies, of which the following is a specification.

This invention has for its object to provide an improved bed to support paper while it is being cut by dies; and it consists of a bed composed of a foundation-plate composed of rigid metal and a superposed sheet of lead having a thin smooth coating of copper formed by electro-deposition, as I will now proceed to describe.

The accompanying drawing, forming a part of this specification, represents a sectional view of my improved bed.

In the drawing, *a* represents the foundation-plate, of cast-iron or other rigid metal, and *b* represents a sheet or plate of lead placed upon the plate *a*, and having on its upper surface a thin smooth coating of copper formed by electro-deposition upon the lead. The surface thus formed possesses the following advantages over ordinary lead or equivalent soft-metal beds which are commonly used with paper-cutting dies, viz: The copper coating presents a surface which, although of a rigid material, is easily cut through by the knives of the die, because of its thinness and the yielding nature of its lead backing, and when thus cut forms fixed cutting-edges, which co-operate with the knives of the die in severing the paper, and prevent the paper from being soiled by contact with the lead. The bed is therefore more efficient, durable, and useful than one of the ordinary material, and can be easily made.

The copper coating may be applied to the lead by other means than by electro-deposition, if preferred. For example, a thin sheet of copper may be secured to the lead, or the copper may be applied by the use of a solution of sulphate of copper, but would not be as hard nor as useful and durable as when applied by electro deposition.

I claim—

1. The cutting bed or block composed of a yielding metal having a coating of copper, as set forth.

2. The combination of a cutting-die and a bed or block composed of a yielding metal having a coating of copper, which is penetrated or slotted by the knives of the die, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 6th day of January, 1885.

HENRY P. FISKE.

Witnesses:
C. F. BROWN,
R. J. POWERS.