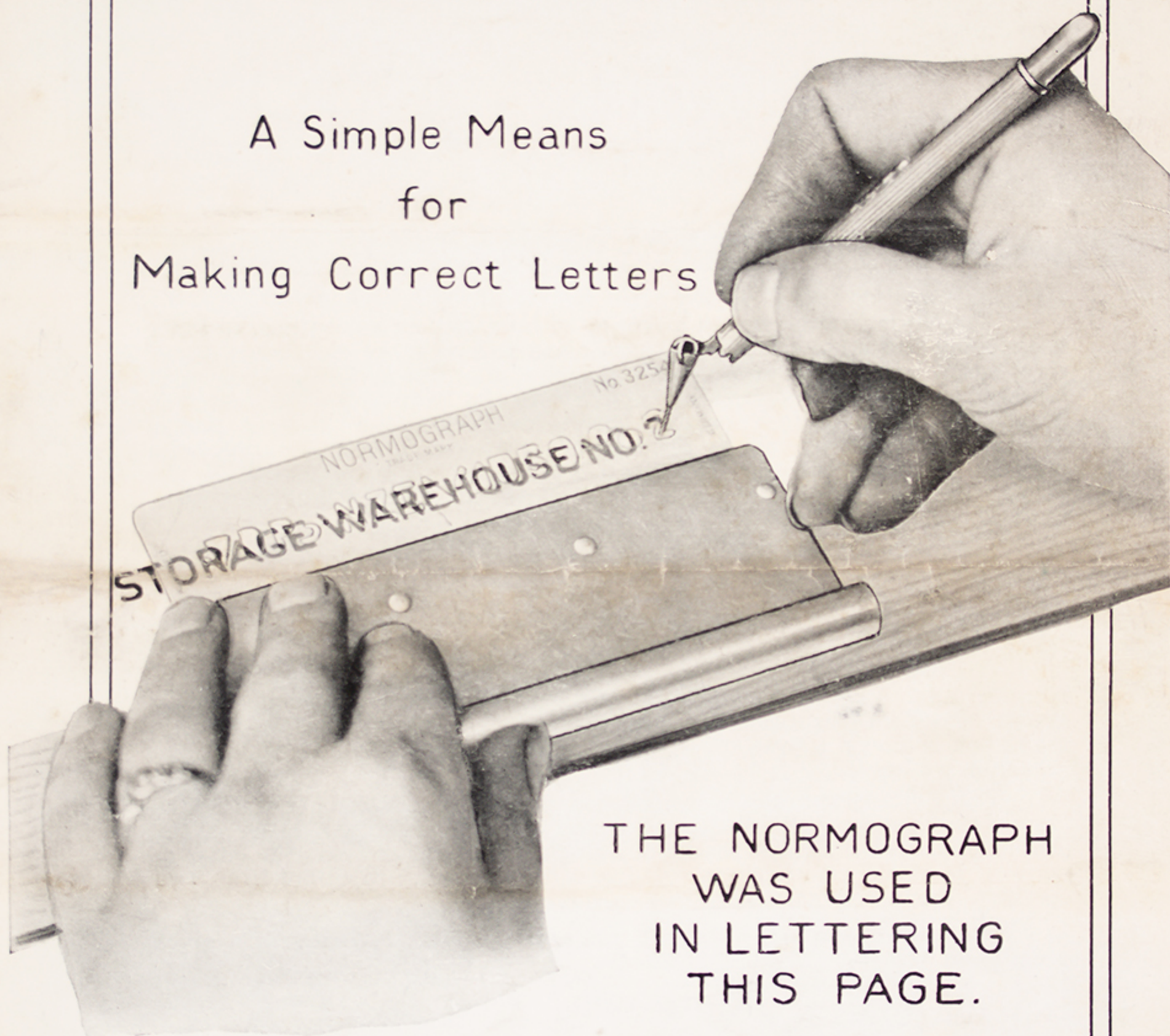


THE NORMOGRAPH

A Simple Means
for
Making Correct Letters

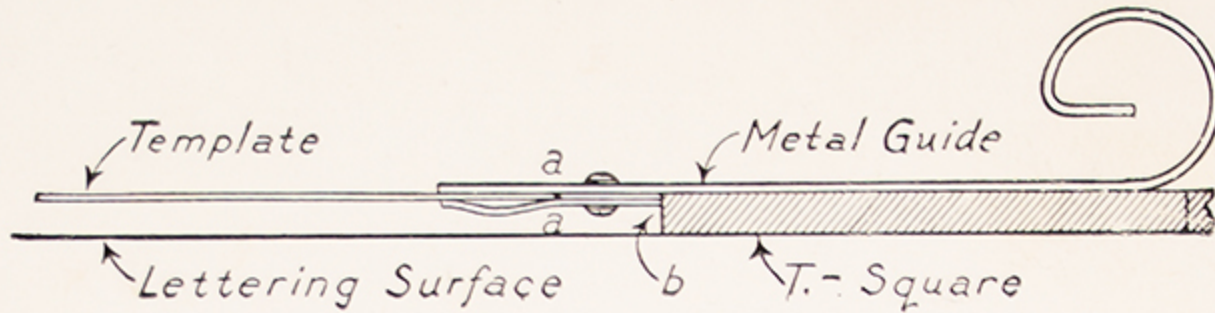


THE NORMOGRAPH
WAS USED
IN LETTERING
THIS PAGE.

KEUFFEL & ESSER CO.
NEW YORK

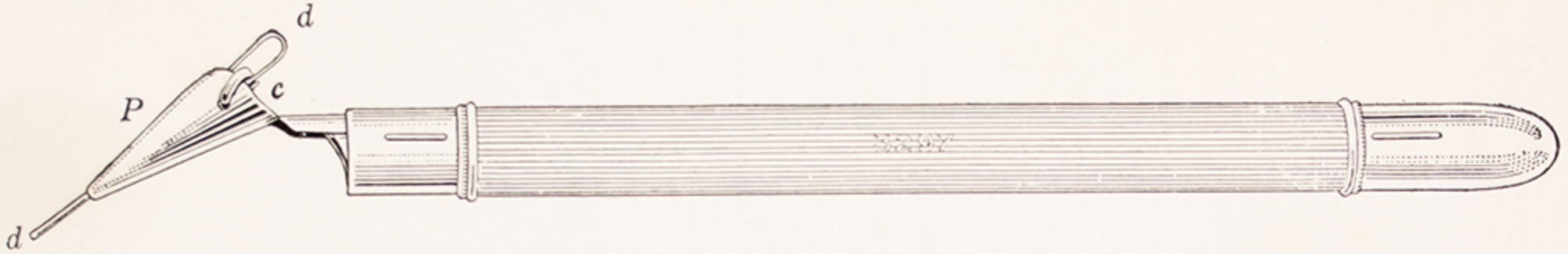
DIRECTIONS FOR THE USE OF THE NORMOGRAPH.

The illustration on the cover shows the general method
of using the Normograph.



The celluloid template is attached to the metal guide by forcing one corner of the template between the jaws (aa) at one end of the guide (see illustration above) and, with this corner as a pivot closing the edge of the template between the jaws of the guide in a manner similar to closing a jackknife. The shoulder (b) is set against the working edge of the T-square or straight edge. A letter is drawn; and the template then moved to the position required for the next letter by sliding the guide along the T-square.

Liquid Drawing Ink is the best ink for lettering. The pens (P) are designed to fit any standard pen holder, but the one in the following illustration



is shown attached to the holder No. 3297. The pen is filled at (c), either by means of a quill or preferably by means of the patented dropper furnished with each bottle of K & E Columbia Drawing Ink. Press the point of the pen gently upon blotting paper so that the tube which forms the point will fill with ink.

When forming the letters, the axis (dd) of the pen must be perpendicular to the lettering surface. The point is inserted in the proper die of the template and the form traced by following the die. Normally, Pen 3294-1 is employed with templates 3251, 3261, 3251 L and 3261 L; Pen 3294-2 with templates 3253 and 3253 L; Pen No. 3294-3 with templates 3263 $\frac{1}{2}$, 3263 $\frac{1}{2}$ L, 3255 and 3255 L; Pen No. 3294-4 with templates 3252, 3263, 3252 L, 3263 L, 3265 $\frac{1}{2}$, 3265 $\frac{1}{2}$ L, 3257 and 3257 L; Pen No. 3294-5 with templates 3254 and 3254 L; and Pen No. 3294-6 with templates 3256, 3267 $\frac{1}{2}$, 3256 L and 3267 $\frac{1}{2}$ L.

After use, both the pen and the template should be washed clean of ink.

The characters shown in the following pages are made by guiding the pen along those portions of the dies indicated by the full lines in the illustrations on the succeeding pages. The portions indicated by the dotted lines are not brought into operation. Thus, on page 4, X is formed by using dies 9 and 10, but only those portions indicated by the solid lines of the key.

Where more than one die is employed to form a letter, the direction in which the template must be moved in order to bring the second die into position, is indicated by the arrow. Thus, in forming capital M, page 5, die No. 10 is first traced, the template is moved to the left until die No. 12 is in the correct position, and the character completed.

The small holes in the template are for the purpose of making horizontal lines. The pen is inserted in the hole and the template moved along the T-square until a line of the desired length has been drawn. Thus, hole No. 1, page 5, is employed to make the cross line of the capital A.

KEUFFEL & ESSER CO.

NEW YORK, 127 Fulton Street,

General Office and Factories, HOBOKEN, N. J.

CHICAGO

ST. LOUIS

SAN FRANCISCO

MONTREAL

516-20 S. Dearborn St.

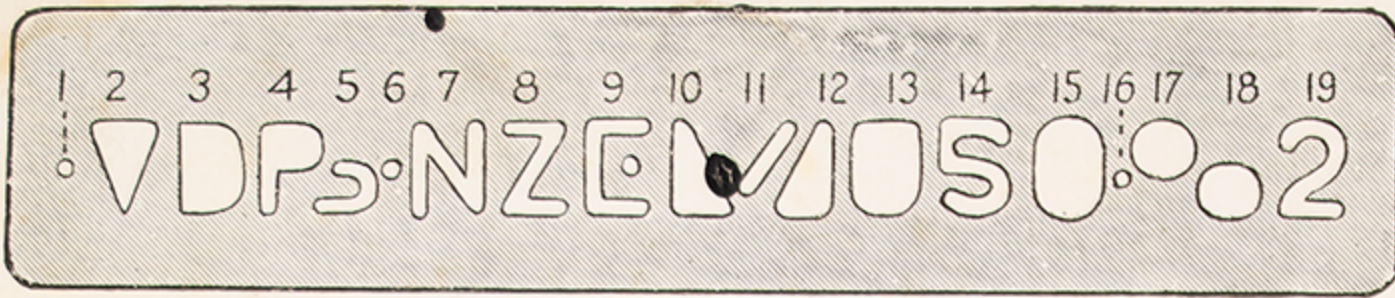
817 Locust St.

30-34 Second St.

5 Notre Dame St. W.

Drawing Materials, Mathematical and Surveying Instruments, Measuring Tapes

KEY



Nos. 3251, 3252, 3253, 3254, 3255, 3256, 3257.



In printing the capital M care should be taken to avoid making it too wide.



EXAMPLES OF LETTERING AND THICKNESS OF LINES
OBTAINED WITH THE NORMOGRAPH AND APPROPRIATE PENS.

The lower case letters are placed opposite the corresponding capitals.

ABCDE FGHIJK

No. 3251 No. 3261
Pen No. 3294-1

A B C D E F

No. 3252 No. 3263.
Pen No. 3294-4 * Pen No. 3294-2

ABCDEFGHI

No. 3253
Pen No. 3294-2

ABCDEF

No. 3263½
Pen No. 3294-3

ABCDEF

No. 3254
Pen No. 3294-5

ABCDEF

No. 3255
Pen No. 3294-3

ABCD

No. 3265½
Pen No. 3294-4

AB CD

No. 3256
Pen No. 3294-6

No. 3267½
3294-5

ABCD

No. 3257
Pen No. 3294-4

lmnop stuvw

No. 3251 L No. 3261 L
Pen No. 3294-1

ghijk lmnop

No. 3252 L No. 3263 L
Pen No. 3294-4 Pen No. 3294-2

ijklmnopqr

No. 3253 L
Pen No. 3294-2

ghijklmno

No. 3263½ L
Pen No. 3294-3

ghijklmno

No. 3254 L
Pen No. 3294-5

ghijklmno

No. 3255 L
Pen No. 3294-3

efghijk

No. 3265½ L
Pen No. 3294-4

efg nij

No. 3256-L
Pen No. 3294-6

No. 3267½ L
3294-5

efghij

No. 3257 L
Pen No. 3294-4

For Catalogue Numbers of Templates and Corresponding Pens, see
under samples of lettering above.

Lettering Templates, Vertical Letters (order by number) . . . each \$	.60
Lettering Templates, Slanting Letters (order by number) . . . "	.70
Lettering Pens (order by number)	.20
3291. Aluminum Guide, about 3½ in. long	.60
3292. " " " 5¼ " " "	.90
3297. Metal Holder for Pens	.30