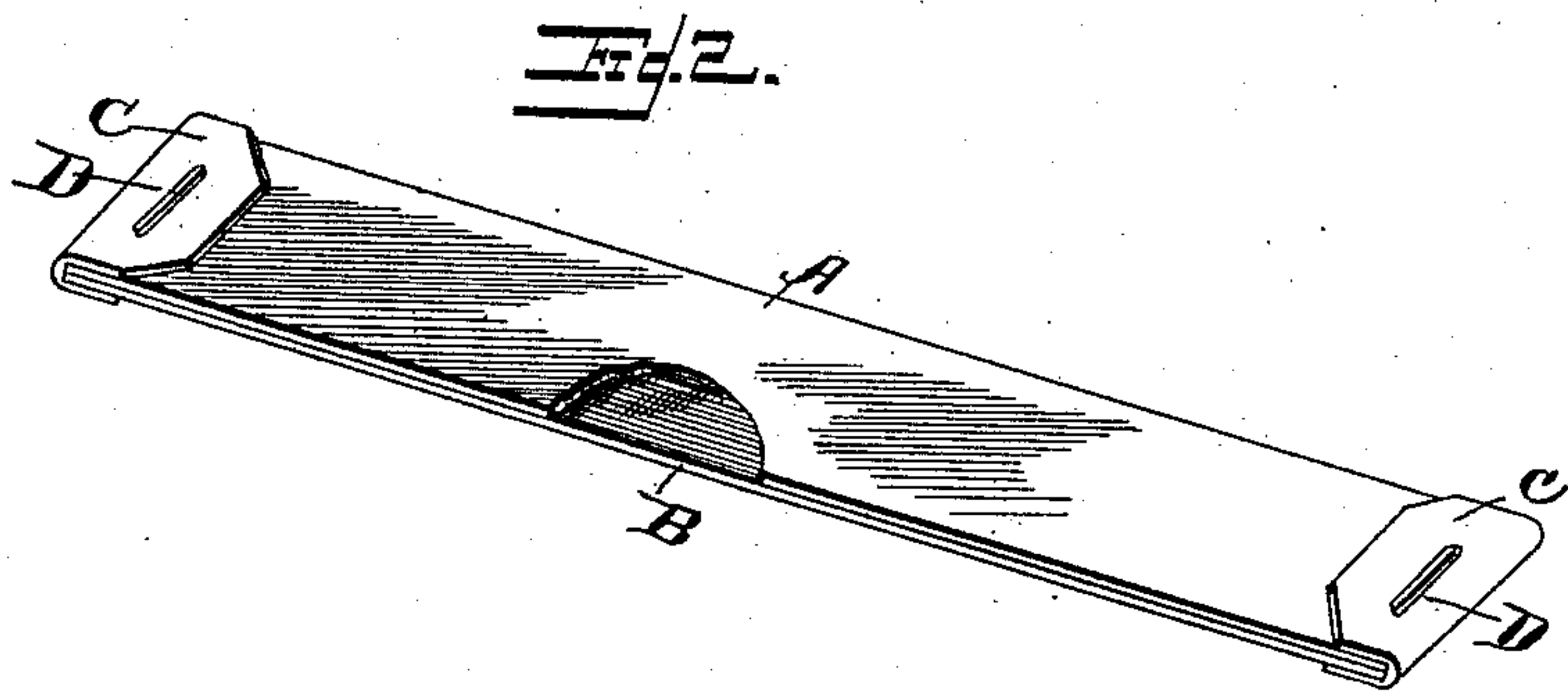
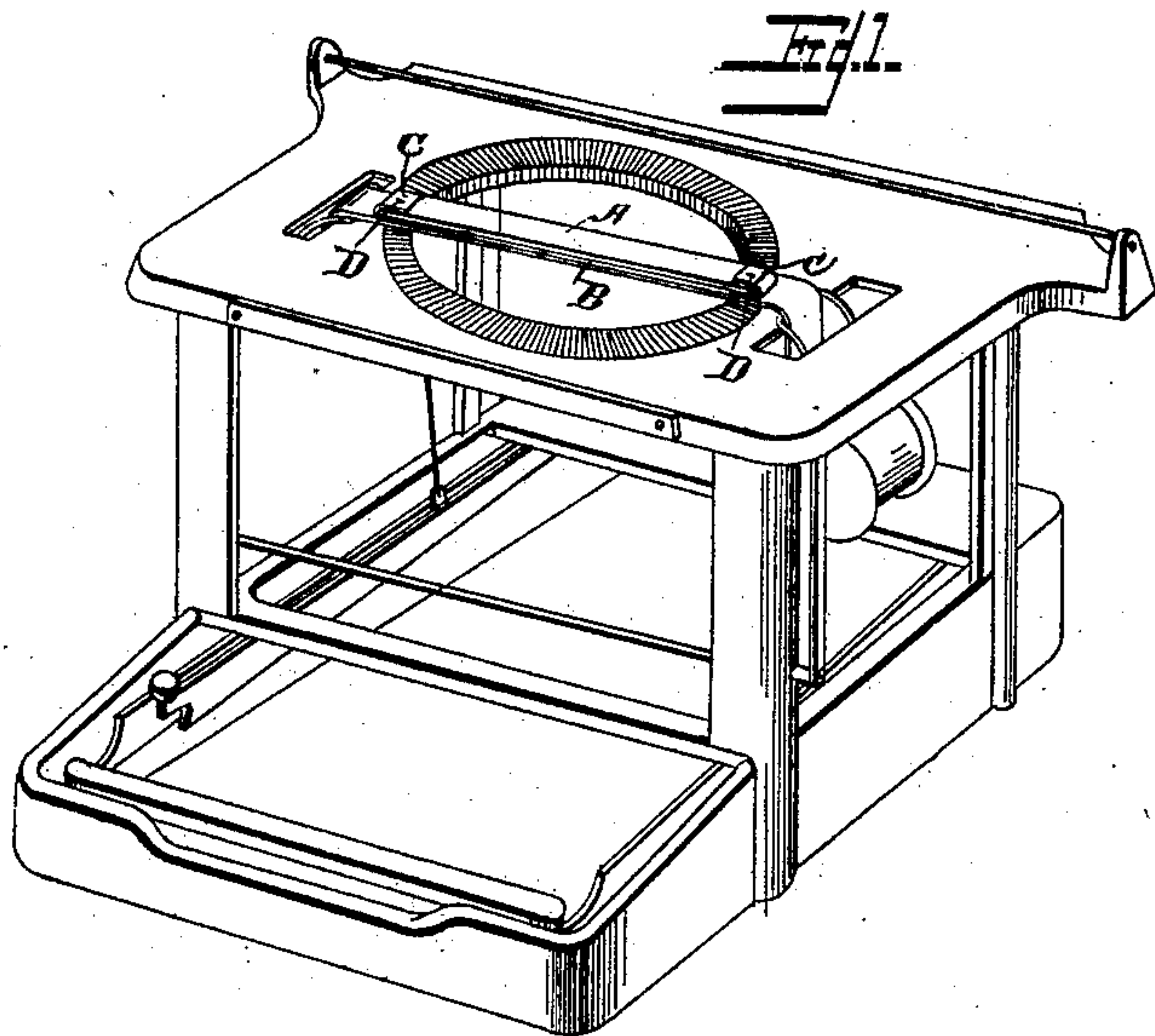


(No Model.)

S. C. VASALY.
TYPE WRITING MACHINE.

No. 472,612.

Patented Apr. 12, 1892.



WITNESSES

J. M. Fowler Jr.
Thomas Durant

INVENTOR

Stephen C. Vasaly.
by Louis V. P. & Co.
Attorneys

UNITED STATES PATENT OFFICE.

STEPHEN CHARLES VASALY, OF ST. PAUL, MINNESOTA.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 472,612, dated April 12, 1892.

Application filed October 9, 1891. Serial No. 408,243. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN CHARLES VASALY, of St. Paul, in the county of Ramsey and State of Minnesota, have invented certain
5 new and useful Improvements in Type-Writing Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of
10 this specification, and to the letters of reference marked thereon.

With the ordinary type-writer, in which the characters are impressed on the printing-surface through an interposed inked ribbon, the
15 words or characters to which particular attention is desired to be directed are usually underscored or capitalized.

It is the object of my invention to provide means whereby such words or characters may
20 be brought to the attention more prominently and be more quickly and easily distinguishable from the body of the work, and this, too, without in any way interfering with the ordinary running of the machine and without
25 entailing any extra labor or trouble on the operator. These results I accomplish by interposing between the usual ribbon on the machine and the printing-surface an auxiliary ribbon of different color, so that the desired
30 words and characters will be printed in a color different from those in the body of the work, all of which I will now proceed to describe.

In carrying my invention into effect I provide a piece of type-writer ribbon of the desired length and color, preferably red, and locate on one side thereof a strip of paper or other suitable protecting material. To the
35 ends of the auxiliary ribbon I secure clips or end pieces of any suitable material—such as tin, celluloid, or leather—by suitable fastening devices or otherwise. In the example shown the end pieces are made of leather and are secured by means of fasteners passing
40 way through the leather end pieces, ribbon, and paper strip. These clips or end pieces serve to hold the protecting-strip and ribbon together and prevent the fingers of the operator from becoming soiled in handling the
45 ribbon and also by their weight assist in

keeping the auxiliary ribbon in place when in use.

In the accompanying drawings, Figure 1 is a perspective view of a type-writer, showing the auxiliary ribbon in operative position. 55
Fig. 2 is an enlarged perspective view of the auxiliary ribbon, the ribbon being broken away to show the underlying protecting-strip.

Similar letters of reference in the several figures indicate the same parts. 60

The letter A indicates the ribbon, broken away to show clearly the strip of paper or other suitable material B underlying the same.

C indicates the end pieces or clips, and D the fastening devices for holding the ribbon 65 and paper strip together.

In use, when the operator desires to print certain words or characters in a different color from the body of the work being done to emphasize the same or for other reasons he 70 simply places the auxiliary ribbon across the type-basket over the ribbon on the machine, so that the protecting-strip will lie between the two ribbons; the ends of the auxiliary ribbon resting on opposite sides of the machine, and then proceeds to use the machine 75 as ordinarily.

For all ordinary purposes the weight of the auxiliary ribbon and end pieces will be sufficient to hold the same in place as long as 80 necessary, at the same time allowing it a slight movement to present new surfaces at the printing-point, and as the protecting-strip is interposed between the two ribbons there will be no blending of the two colors, and 85 thus the different-colored writing is brought out clearly and distinctly.

It will be seen that the means employed are very simple, can be easily and quickly put in place and removed with practically no trouble, 90 and the running of the machine for ordinary purposes is in no way interfered with.

Having thus described my invention, what I claim as new is—

1. In a type-writer, the combination, with 95 the ribbon, platen, and printing mechanism, of a relatively short auxiliary ribbon of different color interposed between the ribbon on the machine and the platen, as and for the purpose described. 100

2. In a type-writer, the combination, with the ribbon, platen, and printing mechanism, of an auxiliary ribbon of different color, having the protecting-strip located on one side thereof interposed between the ribbon on the machine and the platen, as and for the purpose described.

3. As a new article of manufacture, an auxiliary ribbon for type-writers, consisting of a piece of inked ribbon having a protecting-

strip of paper or other suitable material on one side thereof and end pieces or clips, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

STEPHEN CHARLES VASALY.

Witnesses:

LOUIS FEESER, Jr.,

L. J. WITHEE.