

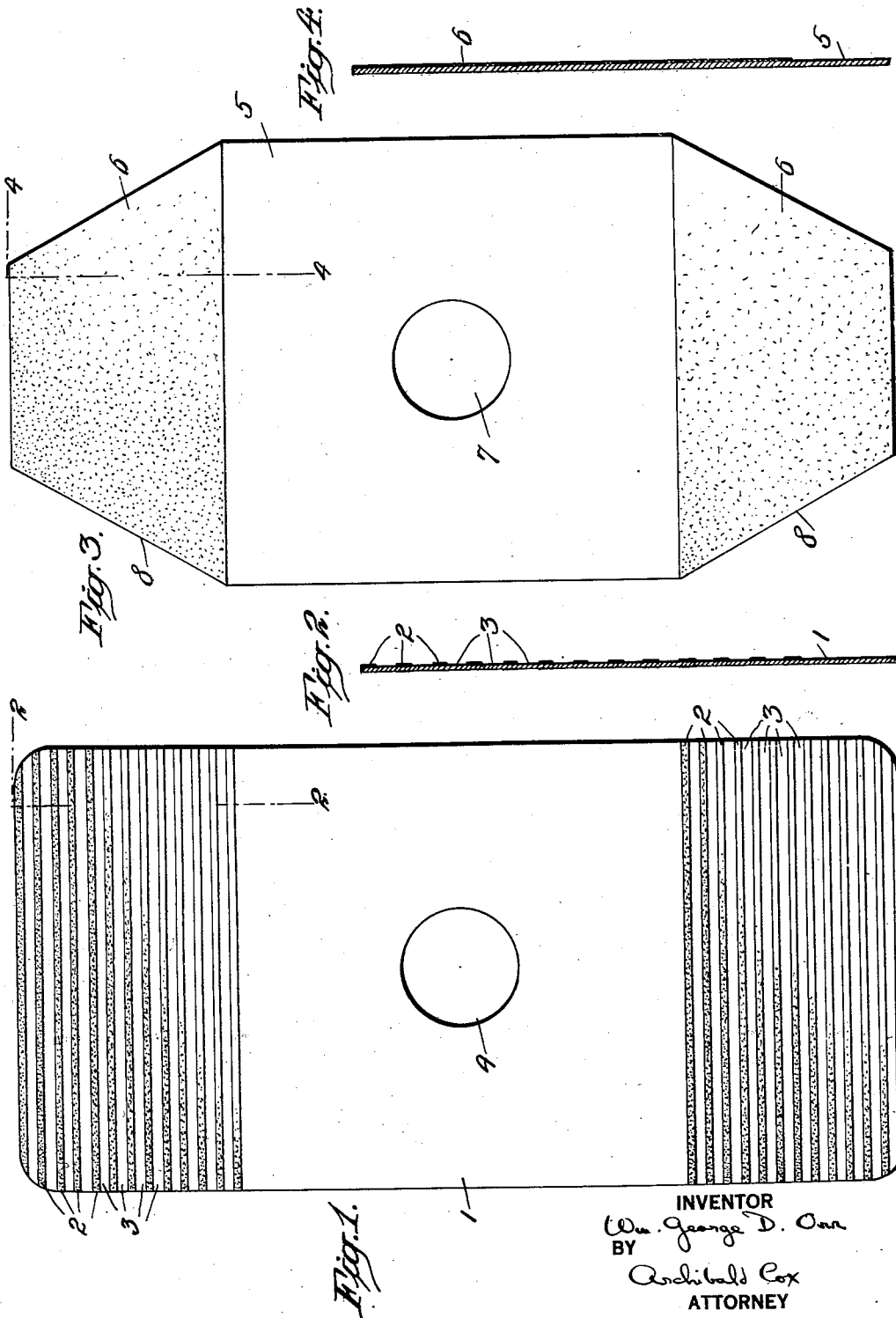
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INTERLEAVING SHEET

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INTERLEAVING SHEET

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This invention relates to separators to be interleaved between freshly inked sheets, such as are delivered by duplicating machines, to prevent blurring of the ink. In Patent No. 1,682,699, issued to A. B. Dick Company as assignee of E. J. Brasseur, there is described and claimed a device for placing a separator on top of each inked sheet turned out by a duplicator. In such devices, a stack of sheets of material suitable for interleaves is held vertically in a receptacle and the front sheet or separator is slid upwards along the next under a slight pressure, the upper end of the separator being then bent outward from the stack to admit air between it and the next sheet. Thereafter, the front sheet is permitted to drop by gravity and is pushed at a point above its lower end so that it falls onto the printed sheet.

The chief function of these separators is to keep the inked sheets apart to permit the ink to dry, and they may accordingly be made of any suitable material, preferably strawboard paper or other material of sufficient stiffness to be properly delivered by the interleaving machine described in the aforementioned patent. Due, no doubt, to the character of the material from which such sheets are made, and especially to variations in the surface smoothness (or roughness) of the sheets, there is some tendency for the machine to lift two or more separators at once and deposit them on a single inked sheet. This is obviously objectionable.

A principal object of the present invention is, therefore, to provide a separator of such a character that the interleaving machine will remove but one at a time from a stack of such sheets.

I have now found that by waxing the ends of the separators, and more particularly by waxing one side at each end of the separator in strips transversely to the direction of movement of the sheet, leaving unwaxed strips between the waxed ones, a sheet is provided which accomplishes the desired results.

Other objects and advantages of this in-

vention will appear from the following detailed description of the preferred embodiments thereof and in connection with the drawings which form a part thereof, and wherein:

Fig. 1 is a plan view of an interleaving sheet in accordance with the present invention. Fig. 2 is a cross section of the sheet taken on the lines 2—2 of Fig. 1. Fig. 3 is a plan view of a modified form of interleaving machine. Fig. 4 is a cross section of the sheet taken on the lines 4—4 of Fig. 3.

There is shown at 1 an interleaving sheet which is suitable for placing between sheets which are freshly inked as they come from a duplicating machine. This interleaving sheet is preferably of a different size than the inked sheet and may be longer and/or narrower than the latter and may have its corners rounded or cut off in order to facilitate easy removal of the interleaving sheets from between the other sheets. At either end of this sheet there are strips 2 of wax or similar material running across the sheet so that there are unwaxed strips 3 between the waxed strips.

I have found that such construction, either because of the possibility of the admission of air between the waxed strips or for some other reason, is superior to solid waxed ends on the sheet. In this construction, the sheets are only waxed on one side, that is, on the side which is rubbed against the next separator sheet. A hole 4 is located near the center of the sheet to permit a member of the interleaving machine to push the foremost sheet, at a predetermined time, from the rear of a stack of these sheets, as is disclosed in the patent referred to above.

Referring to Figs. 3 and 4 there is shown a separator sheet 5 have solidly waxed ends 6, and a hole 7 in the center of the sheet. In this modification, the corners are cut off as at 8.

Having described my invention, what I claim is:

1. An interleaving sheet, for separating freshly inked sheets, having waxed ends.
2. An interleaving sheet, for separating

freshly inked sheets, having waxed portions on one side and at either end thereof.

3. An interleaving sheet, for separating freshly inked sheets, having waxed strips on one side and across either end thereof and unwaxed strips between the waxed strips.

4. An interleaving sheet, for separating freshly inked sheets, having a waxed end.

5. An interleaving sheet, for separating freshly inked sheets, having waxed strips on one side and across one end thereof and unwaxed strips between the waxed strips.

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