

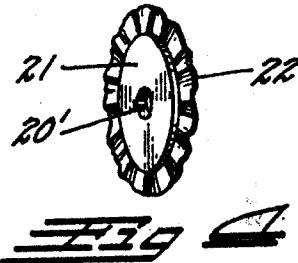
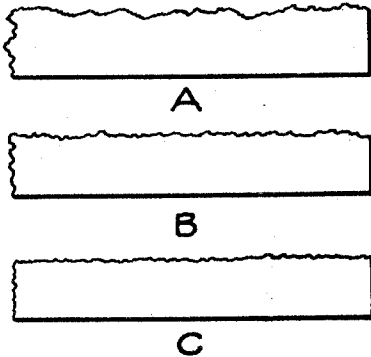
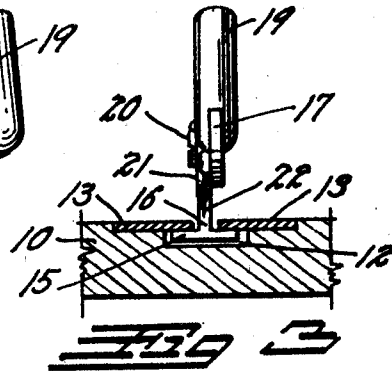
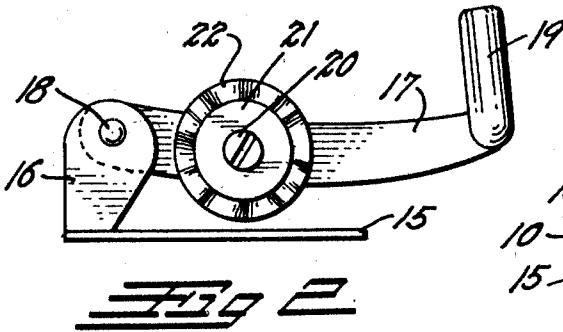
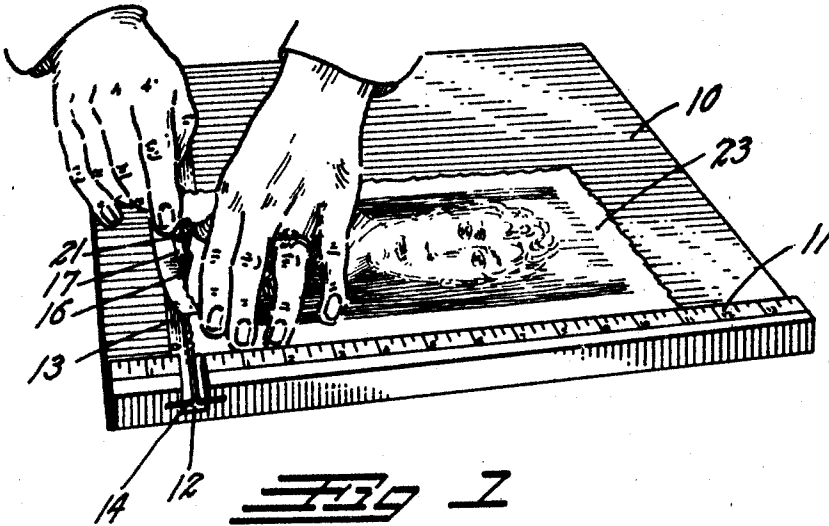
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P. O. DODGE

1,846,094

PAPER DECKLING DEVICE

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PAPER DECKLING DEVICE

Application filed May 13, 1930. Serial No. 451,963.

This invention relates to a device for forming paper sheets with what is known as a "deckle edge" and has for its principal object the provision of a simple and efficient mechanism which will rapidly produce a perfect deckled edge having the rough feathery appearance so desirable in modern photo finishing.

Another object of the invention is to provide a device of this character which can be adjusted to obtain different degrees of deckling and so that a series of photographic prints can all be deckled with the same uniform style and degree.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawings which form a part hereof. Like numerals refer to like parts in all views of the drawings, and throughout the description.

In the drawings:

Fig. 1 illustrates the invention in use.

Fig. 2 is a side elevation of the deckling device to be employed in connection with the deckle board shown in Fig. 1.

Fig. 3 is a front elevation of the deckling device illustrating it as it would appear upon the deckle board which is shown in section at 10.

Fig. 4 is a detail view of the typical deckling wheel which may be employed with the deckling device.

Fig. 5 illustrates three typical specimens of "deckle edge" as produced by the device. In this figure a coarse edge is illustrated at "A"; a medium edge at "B"; and a fine edge at "C".

This invention is more particularly designed as an improvement over the applicant's former invention which is disclosed in co-pending application, Serial No. 339,320, filed Feb. 12, 1929. In the former invention the deckle edge was produced by means of a blunt instrument which was drawn across the paper over an open groove. It has been

found that more uniform results can be obtained and that the device is more adaptable to the average operator by the use of deckling wheels. The use of the wheels also allows the machine to be set for various degrees of deckling with the assurance that it will maintain the desired degree until a further change is required.

The invention comprises a deckle board 10 along one edge of which is a raised straight edge provided with a suitable scale 11. Adjacent one edge of the board 10 a relatively deep groove 12 is formed at right angles to the scale 11. Two straight-edged, metallic strips 13 are embedded so as to be flush with the surface of the board 10 and spaced apart so as to form an aligning slot 14 above the bottom of the groove 12. The slot 14 is of less width than the groove 12 so as to form a T-shaped passage across the entire width of the board for guiding the deckling device.

The deckling device comprises a flat foot member 15 carrying at the middle of its one extremity a standard 16. An arm 17 is pivoted as shown at 18, to the standard 16 and extends forwardly over the foot member 15. The arm 17 terminates in a knob or finger hold 19.

A bearing screw 20 is threaded into the arm 17 to provide a bearing shaft for a deckling wheel 21. A relatively thin, annular, roughly corrugated, edge 22 projects from the deckling wheel 21.

It is preferred to furnish with each device a series of deckling wheels each having a greater degree of corrugation in its edge 22. For instance, one wheel may have an edge roughly corresponding to the deckle edge "A"; another corresponding to the edge "B"; and another corresponding to the edge "C", Fig. 5. The operator can then by removal of the screw 20 place any desired wheel on the arm 17 to obtain the desired degree of "deckle edge."

In use, a photographic print 23 or other paper sheet is placed against the scale 11, with its edge extending over the slot 14. The foot member 15 is then slid under the strips 14 and the wheel 20 is forced downwardly against the paper until it breaks through the

paper into the slot 14. It is then rapidly drawn across the print with the assurance that a perfect deckle edge will be formed exactly at right angles to the edge of the print 23 contacting with the scale 11.

5 A perfect deckled edge has in addition to an irregular contour a broken, frayed or feathery appearance. This can not be obtained by a cutting process. Therefore, it is desired to call attention to the fact that the 10 corrugated edges 22 of the deckling wheels are not sharpened and therefore do not cut the edge of the paper sheet. They simply force the paper downwardly into the slot until they break through it thus acting to draw 13 out the fiber of the paper leaving a perfect feathery deckled edge.

While a specific form of the improvement has been described and illustrated herein, it 20 is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what 25 is claimed and desired secured by Letters Patent is:—

1. A deckling device for forming a deckle edge on paper sheets comprising: a deckle board having a lateral slot; a guide member 30 adapted to travel in said slot; an arm pivoted to said guide member; and a wheel carried by said arm and arranged to travel over said sheet said wheel having a blunt edge so that it will not cut said sheet but will depress it into said slot until it breaks from 35 the tension.

2. A deckling device for forming a deckle edge on paper sheets for use in combination with a deckle board having a lateral slot comprising: a foot member; a standard projecting 40 upwardly from said foot member; a lever pivoted to said standard; a deckling device carried by said lever and arranged to break said sheet into said slot, said deckling device 45 comprising: a wheel journaled on said lever and arranged to contact with said sheet, said wheel having a corrugated edge.

In testimony whereof, I affix my signature.
PRESTEL O. DODGE.

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