

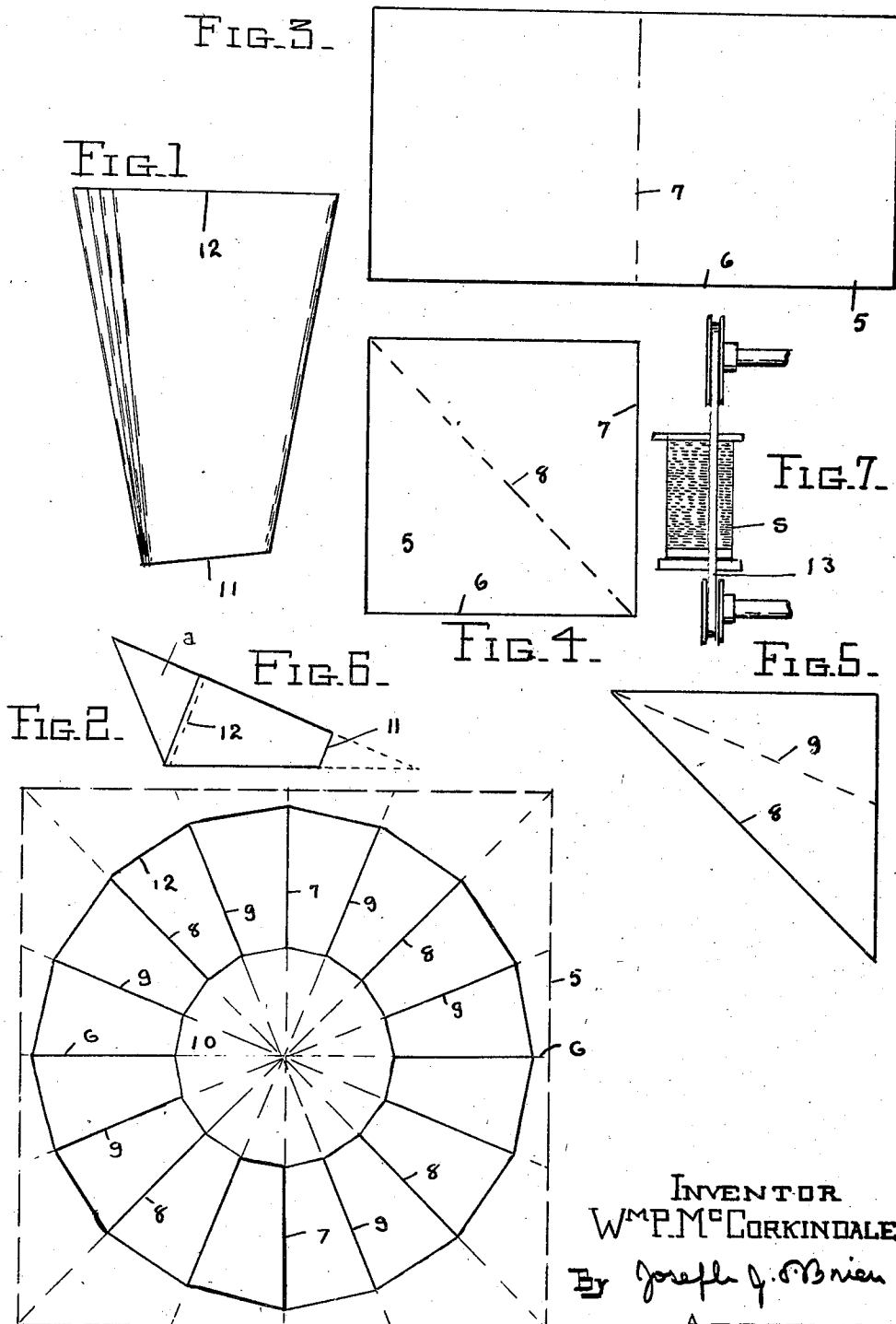
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METHOD OF PRODUCING FOLDED TOILET SEAT COVERS

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METHOD OF PRODUCING FOLDED TOILET-SEAT COVERS.

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This invention relates to improvements in emergency paper covers for toilet seats, and its leading object is to provide a method of producing a folded toilet seat cover, which is folded into a series of segmental parts and in compact form, so as to be capable of being dispensed in a vending machine, and to readily open into circular form, so that it may be disposed upon the exposed upper surface of a toilet seat.

Another object of the invention is to provide a toilet seat cover of this type, which may be built up from a rectangular sheet of paper, and then subjected, when compressed into a solid mass, to a sawing operation, whereby the apex portions of the folded covers will be removed by a straight cut, and the outer edge portions will be trimmed by a similar straight saw cut, so that from a series of radially folded rectangular sheets, a series of annular toilet seat covers will be produced.

With the above and other objects in view the invention consists in certain new and useful constructions, combinations and arrangements of parts, clearly illustrated in the accompanying drawings, in which:—

Fig. 1 is a plan view of a completely folded napkin, showing the end flaps spaced laterally from each other.

Fig. 2 is a plan view of the seat cover opened, showing the rectangular sheet, in dotted lines, from which the cover is made.

Fig. 3 is a plan view of the half folded sheet.

Fig. 4 is a plan view of a quarter folded sheet.

Fig. 5 is a plan view of an eighth folded sheet.

Fig. 6 is a plan view showing the final radial fold, and illustrating the severed apex portion in full and dotted lines, and the final cross cut in dotted lines.

Fig. 7 is a detail view in elevation showing the method of sawing the stack of folded sheets.

Referring to the accompanying drawing 5 designates a paper sheet, which is folded upon itself along a line 6 to provide approximately equal half portions. This folded sheet is then folded along the line 7 transverse to the fold line 6, to provide quarter folded areas; and this quarter folded sheet is then again folded along the line 8, diagonal to the fold lines 6 and 7, to pro-

vide an eighth folded sheet. The sheet thus folded is again folded upon itself along the line 9 to provide the final form of the folded sheet, as shown in Fig. 6, wherein the apex portion is shown to be severed.

When the rectangular sheet is folded to its final form a triangular projection a is left on the larger and outer end of the folded paper cover.

All of the fold lines 6, 7, 8 and 9 are radial from the common center of the sheet, so that a series of segmental areas are formed, as shown in Fig. 2.

A series of sheets thus folded are then grouped together in superimposed relation, and held under suitable compression, and then subjected to a sawing operation to sever the apex portions from the bodies of the folded seat covers.

This cut is along the approximate line 11. The stack of folded and compressed sheets is then subjected to a second saw cutting operation, and the triangular end portion a is severed by a cut along the line 12.

In Fig. 7 I show a band sawing device, the complete details of which are omitted for convenience. The band saw 13 is actuated by any suitable mechanism, and the stack of sheets s is moved across the edge of the band saw, in the usual manner.

After one cut is made then the other cut is made.

In folding the sheet in advance of cutting or trimming the folds may be so arranged that a spaced flap edge relation such as is shown in Fig. 1 may be produced, so that finger separation of the folded areas may be facilitated.

When the sheet is opened a central opening 10 will be formed, through which the usual physical deposits may be made, while the body of the seat cover will overlie the toilet bowl seat and protect the same, as well as protect the user seated thereon, against possible infection or contamination.

The radial folds insure a minimum contact with the toilet bowl seat, so that detachment of the folded paper seat cover from the bowl seat may be accomplished.

The process employed insures uniformity in the product and tends to produce a mutilated edge of more than sheet thickness, so that picking up of the folded sheet may be accomplished with greater ease. The sheet may be waxed or oiled, so that permanent

adhesion to the bowl seat will be avoided.

Having described my invention I claim:—

1. The process of making paper toilet seat covers consisting in folding a rectangular sheet upon itself along a series of fold lines radiating from a common center to provide a final triangular shaped folded article, and then sawing a series of similarly folded sheets along the apex portion thereof and then along the outer portion thereof, to provide an approximately annular toilet bowl seat cover.

2. The method for the production of a toilet seat cover, which consists in folding a square blank to produce surfaces representing respectively one half, one quarter, one eighth and one sixteenth then clamping the folded blank, then removing the apex and base portions to produce a centrally disposed opening and a plurality of side edges.

3. A method of producing an article of manufacture having a centrally disposed

opening and angularly disposed side edges which consists in folding a blank a sufficient number of times to produce a compact member of several layers, then removing the opposite end portions for producing a centrally located opening and a plurality of angularly disposed side edges.

4. The method of producing an article having substantially a circular central opening and side edges which consists in first forming a square blank, then folding it on a median line, then folding it on a line to produce one quarter of its surface, then folding it on a diagonal line to produce a one-eighth surface, then folding it on a line to produce substantially a one sixteenth surface, then removing the apex and base portion, whereby said opening and side edge is produced, as described, when the blank is unfolded.

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