This invention relates to a paper carton col-
1 laper, and is particularly adapted for collaps-
ging square paper milk cartons and the like.

The primary object of the invention is to be
able to insert square paper cartons, as for in-
stance milk cartons into a collapsing device so
that the cartons may be collapsed and folded
into a small space for convenient disposal. This
is particularly important in restaurants and
places where a considerable number of cartons
are dispensed.

Other objects will be apparent in the draw-
ings, specification and claims.

Referring to the drawings:

Figure 1 is a perspective view of my improved
carton collapsing showing a carton about to be in-
serted in the collapsed device.

Figure 2 is a plan view of the device showing
the carton having been brought into place and
about to be rolled up and collapsed.

Figure 3 illustrates the collapsing of the car-
ton, the same being partly collapsed within the
device.

Figure 4 illustrates the carton having been
completely collapsed.

Figure 5 is a sectional view, taken on line 5—5
of Figure 3, showing the carton in broken line
position.

Figure 6 is an exploded perspective view illus-
trating the means for supporting the device.

The improved paper carton collapses con-
sists of a substantially hollow casing 1, open at
both ends. The casing consists of a top and bot-
tom and side walls 2 and 5, the latter being ex-
tended beyond the top and bottom as shown at
3. The extended side walls are formed with
aligned bearings 4 and 6 to receive the shaft por-
tion 7 of a crank 8, the opposite end of the

I will now describe the operation of my new
designed carton collapsing device. The carton
is inserted into the rear open end of the casing
to the position shown in Figure 2, with the end
ready to be inserted in slot in the shaft. Im-
mediately the crimped end of the carton passes
beyond the free ends of the flat springs, the
latter spring outwardly toward each other for-
cing or crushing the side walls 13 of the carton.

When the end of the carton is inserted in the
slot in the shaft and the crank is turned, the
carton is drawn toward the shaft and rolled
thereon.

Obviously, by employing the flat springs, when
pulling the carton through the casing, the side
walls are crushed inwardly so that the material
of the carton is rendered susceptible to flatten-
ing when pulled forward by the shaft to form
a roll.

AFTER the carton is collapsed the crank is with-
drawn and the crushed pack, as shown in Figure
4, is dropped or otherwise removed from the
casing.

What I claim is:

1. A device for collapsing substantially square
paper cartons, having crimped front ends, com-
prising a substantially hollow casing open at
both ends and having side, top and bottom walls,
the side walls extended at one end beyond the
top and bottom walls, a crank-shaft mounted in
bearings in the extended side walls of the casing,
the crank-shaft being bent at one end to form
a handle, that portion of the crank-shaft located
within the casing being provided with a slot
adapted to receive therein the said crimped front
end of a paper carton, the inner sides of the
casing being provided with inwardly biased leaf
springs such that, on the insertion of a carton
into the casing with the said crimped front end
thereof threaded through the slot in the said
cramp-shaft and subsequent rotation of the han-
dle, the springs will assist in flattening the ma-
terial of the carton prior to the formation of a
material roll on said crank-shaft.

WALTER G. PETERSON.

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