TITLE OF INVENTION

Honey Straw Sealing Machine

TECHNICAL FIELD

The present invention generally relates to the modification of 2 identical impulse sealers more particularly to a Honey Straw Sealing Machine.

BACKGROUND ART

There is an Over The Shelf, OTS, impulse sealer used for the purpose of sealing the opening of variable sizes of plastic bags, where such sealer is also able to seal plastic straws filled with honey, it does not have a hold position and a flat surface at the seal position to facilitate trimming the straws into equal length with filled honey.

SUMMARY OF THE INVENTION

The objective of the present invention is to facilitate the sealing of multiple plastic straws filled with honey in a single press and to cut them into equal length at the same time.

As such, the machine shall have a steel base plate with 2 movable clip arms to fix the impulse sealers together. The rubber pad on the pressing arm of the sealer shall be replaced with a flat steel blade able to accommodate the heating filament for sealing the plastic materials. The sealing arm is then raised to accommodate the placement of a glass plate to form a base for the sealer bade to press on. The glass plate also form a flat surface to facilitate the cutting of the straws into equal length where the waste could be easily scrapped off from the glass plate.

The pressing arm is also attached with a steel extension of appropriate length for the clip arm on the steel base plate to hold the pressing arm in the pressed position to facilitate the straws trimming.

BRIEF DESCRIPTIONS OF THE DRAWINGS

Figure 1, is an over-the-shelf 30 cm impulse sealer available in the market.

Figure 2, is a Honey Straw Sealing Machine invented by making modification to the over the shelf impulse sealer.

Figure 3, exhibit how the Honey Straw Sealing Machine can seal multiple straws and be held in its sealing position to facilitate cutting the straws filled with honey into equal length.

Figure 4, exhibit how the straws are being released after they are cut to size.

Figure 5, exhibit the schematic breakdown of how the modification are made.

DETAILED DESCRIPTIONS OF THE EMBODIMENTS

A Honey Straw is a food product made by filling honey into plastic drinking straw and sealed at both end. To seal the plastic straw, an impulse sealer would be appropriately used, but it does not facilitate any platform to cut the excess straw into desired length. It is also not possible to hold 2 impulse sealers and cut the straw at the same time for a single operator.

A stainless steel base plate is then design and built, Figure 5 (2), to secure 2 impulse sealer in place.

The rubber pad from the sealing arm of the impulse sealer is then replaced with a design and built stainless steel sealing blade, Figure 5 (7), to be affixed with the heating filament.

The sealing arm is also raised by placing a spacer nut, Figure 5 (5), to its mounting so that a glass plate, Figure 5 (4), could be attached to the impulse sealer to facilitate cutting the excess straws.

In order to have sealing of multiple straw at a single press, a stainless steel straw spacer, Figure 5 (6), is introduced for optimal spacing of the straws.

To facilitate trimming of the straws into equal length, the sealing arm is held in its sealed position by fixing a stainless steel extender, Figure 5 (8), so that it can be locked in place by a stainless steel clip arm, Figure 5 (1), mounted on the stainless steel base plate.

CLAIM

1. A modular desktop machine capable of sealing multiple straws filled with honey which comprises:-
   (a) a flat platform to place the straws filled with honey Figure 5 (4)
   (b) a spacer to space out the straws evenly Figure 5 (6)
   (c) a sealing element to seal the straw ends Figure 5 (7)
   (d) a mechanism to lock the sealing position for straws trimming Figure 5 (1) & (8)

2. The machine as claimed in claim 1 characterized in that the straws filled with honey needs a flat platform, Figure 5 (4), for sealing with a heated filament mounted on the sealing blade. Figure 5 (8)

3. The machine as claimed in claim 2 characterized in that the straws filled with honey must be space evenly, Figure 5 (6), to prevent them from overlapping during the sealing process.

4. The machine as claimed in claim 3 characterized in that the straws filled with honey must be sealed and locked in its sealed position until the excess straws are trimmed.