United States Defensive Publication [19] (H) [11] T102,302

Commisso [43] **Oct. 5, 1982**

[54] **METHOD FOR THE PRODUCTION OF APERTURES IN POLYSTYRENE FOAM SHEET**

[76] Inventor: **Nicholas D. Commisso,** 19 Dryer Ave., Victor, N.Y. 14564

[21] Appl. No.: **298,709**

[22] Filed: **Sep. 2, 1981**

Related U.S. Application Data

[63] Continuation of Ser. No. 88,788, Oct. 29, 1979, abandoned, which is a continuation of Ser. No. 951,547, Oct. 16, 1978, abandoned, which is a continuation of Ser. No. 829,126, Aug. 30, 1977, abandoned, which is a continuation of Ser. No. 633,777, Nov. 20, 1975, abandoned.

[51] **Int. Cl.**[3] **B12B 1/48**

[52] **U.S. Cl.** **264/154**

[57] **ABSTRACT**

A method and apparatus for producing apertures such as ventilation holes and the like in a preformed sheet of polystyrene foam which comprises forming slits which extend completely through the foam structure, the slits being arranged in a predetermined pattern, and passing the preslit foam through a heating zone such as a preheat oven used in plastic thermoforming operations. The resultant heated sheet of foam, as it emerges from the oven, is characterized by having a plurality of openings or apertures in locations corresponding to the slits which were made in the foam prior to preheating. The aperture containing sheets may be subsequently subjected to a thermoforming operation whereby thermoformed objects such as produce containers are produced having ventilation openings, i.e. apertures, located in a predetermined disposition around the thermoformed tray structure.

5 Claims, 4 Sheets Drawing,

17 Pages Specification

The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).

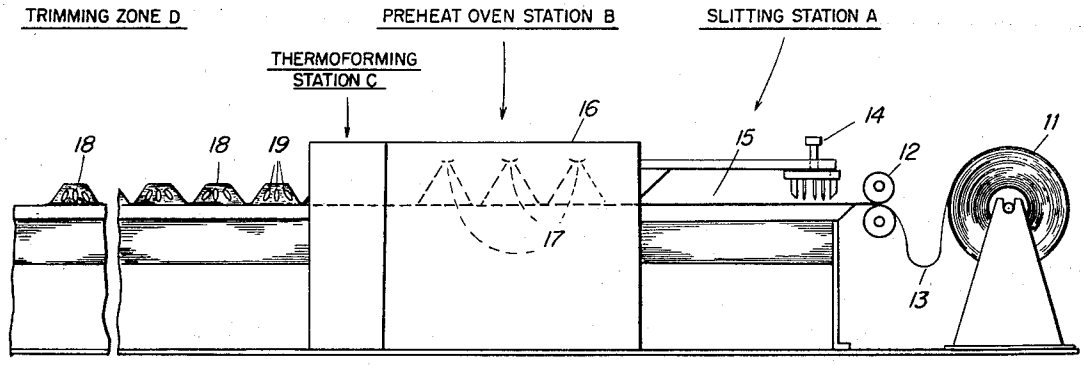
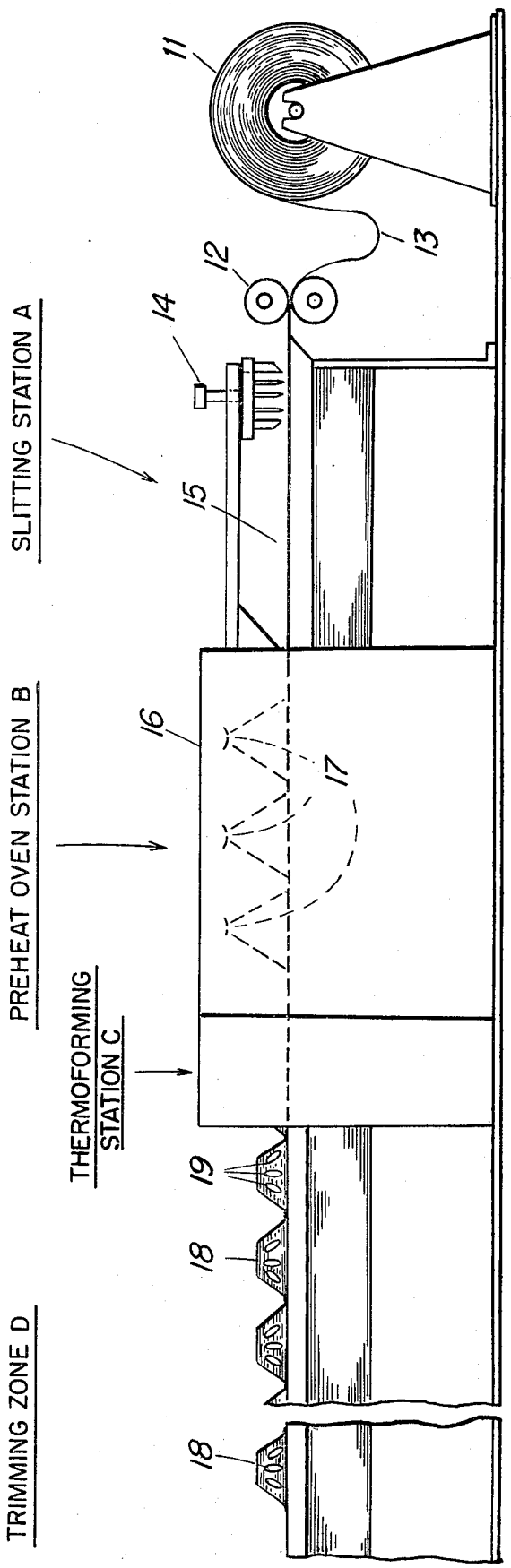


FIG. 1


11
13
12
14
15
SLITTING STATION A
16
17
PREHEAT OVEN STATION B
THERMOFORMING STATION C
19
18
18
TRIMMING ZONE D

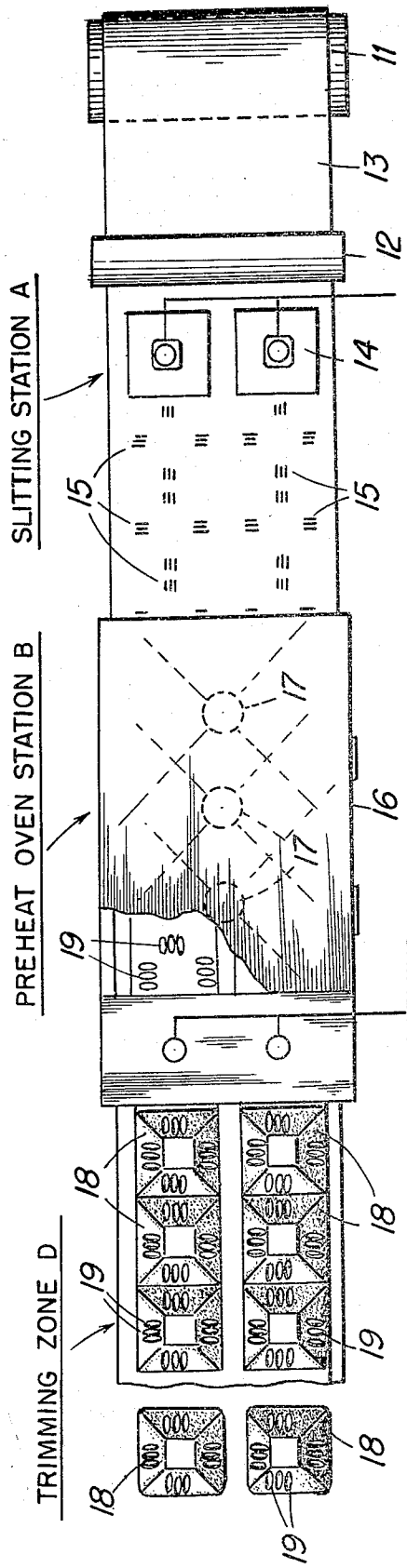


FIG. 2

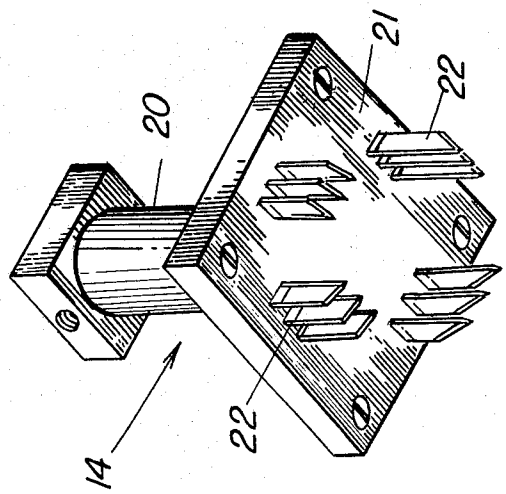


FIG. 3

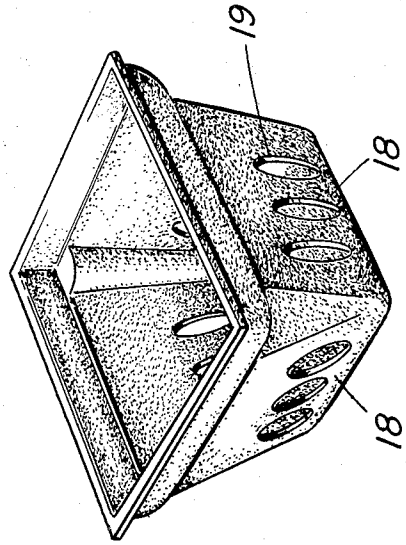


FIG. 4

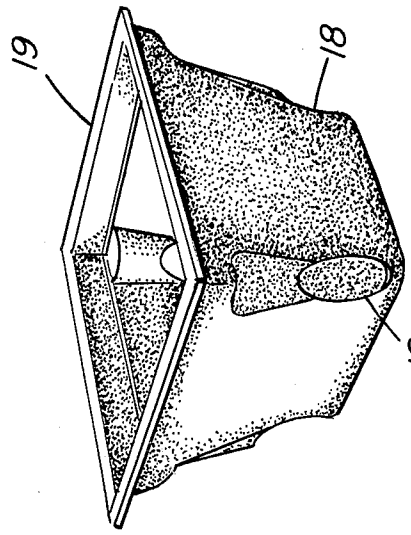


FIG. 6

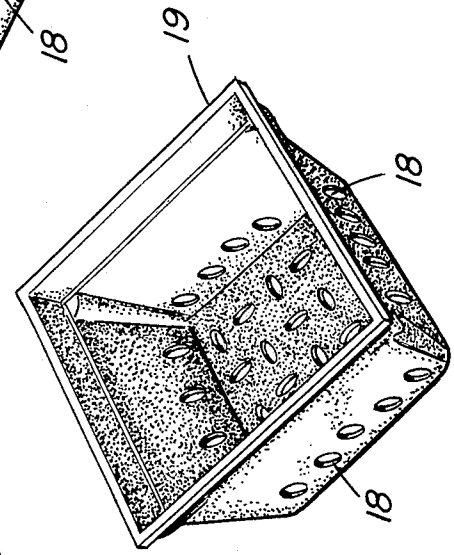


FIG. 7

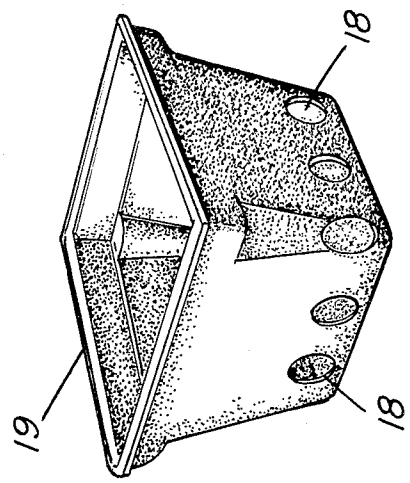
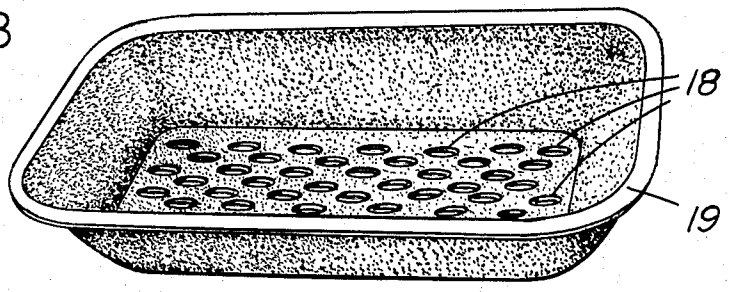


FIG. 5

FIG. 8



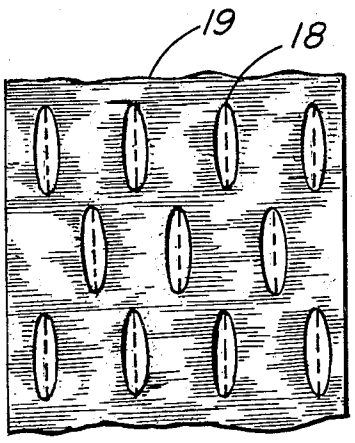


FIG. 9-A

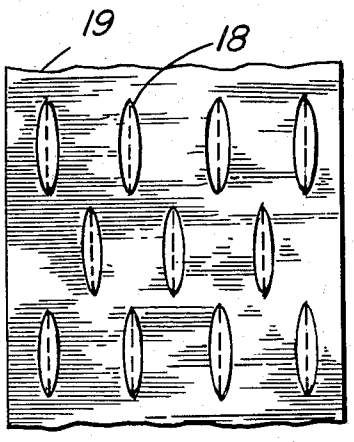


FIG. 9-B

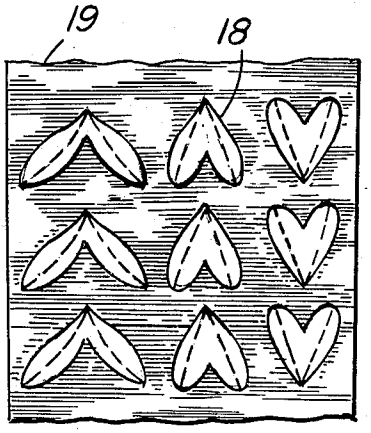


FIG. 9-C

FIG. 10-A

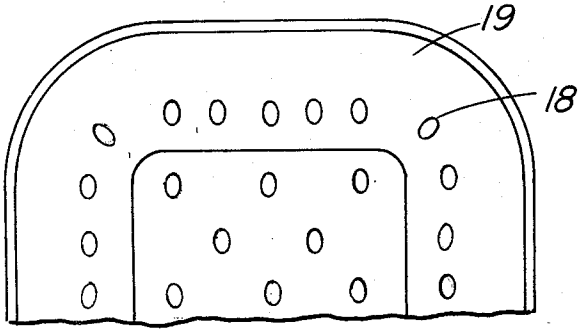


FIG. 10-B

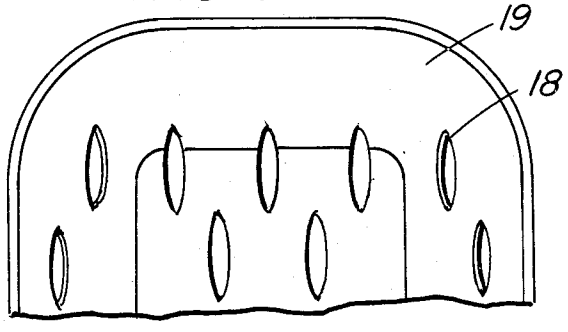


FIG. 10-C

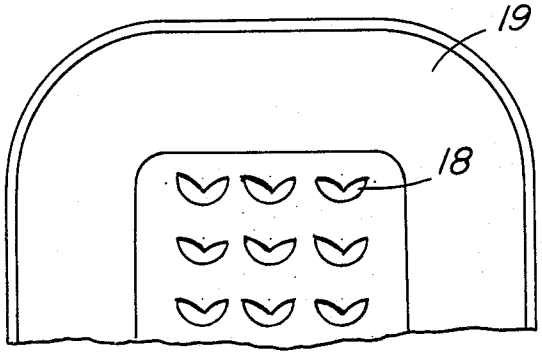
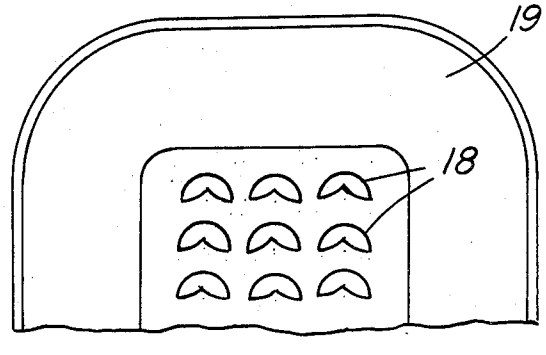



FIG. 10-D