

# Contents and Subject Index

**INTRODUCTION**.....1...

**BEVERAGE CONTAINERS**.....4

- Pressurized Containers.....4
  - Returnable Metal Container .....4
  - Container with Expandable Bottom .....6
  - Plastic Tubular Pouch .....8
  - Tubular Sleeve Plastic Container .....10
  - Special End Closure .....12
  - Polyvinyl Chloride Bottle .....14
  - Special Filling Method.....15
  - Film **Overwrap**.....16
- Inert** Gas Injection.....18
- Closures and Openings .....20.
  - General **Pull-Tab** Design.....20
  - Resealable Flip-Open Section .....21
  - Tear-Out Segment Opening.....24
  - Plastic Strip Closure.....25
  - Tear-Open Bottle Cap .....27.
  - Bottle and Jar Reseal Closure .....29
  - Bendable** Crown Closure.....30
- Sanitary Liner.....32.
- Simultaneous Mold Blowing and Pasteurization .....35
- Can Side Seam Protection .....37
- Shatter Resistant Glass .....38
- Bulk Plastic Bag.....39

<b>CUPS AND SPECIAL CONTAINERS</b> .....	41
Sealed Cups and Containers.....	41
Double Seal Plug.....	41
Adhesive Seal.....	43
Collapsible and Expandable Pouch .....	44
Pouch Expandable on Dilution.....	46
Package and Drink Cup.....	48
Two-Compartment Cup.....	49
Pull-Tab False Bottom.....	51
Containers for Reconstituting Dried Foods .....	52
Punctured Lid .....	52
Controlled Rehydration Design.....	53
Wick Arrangement .....	55
Telescoped Cup Seal .....	57
Packages with Utensils.....	59
Lid Converted into Spoon .....	59
Lid Built-In Utensil.....	60
Combination Spoon-Package.....	61
Spoon Unit Package.....	63
Three-Component Package.....	64
Other Special Containers .....	65
Cup Sleeve Attachment.....	65
Fitted Cup for a Beverage Container .....	66
Pressurized Cup.....	67
Multiple Ingredient Package.....	70
Gelatin Capsule .....	72
Handle Tabs.....	73
Folded Straw Package .....	75
Plastic Film Overwrap.....	76
Saran-Coated Rigid Container .....	77
 <b>DAIRY PRODUCTS</b> .....	 80
Milk Containers.....	80
Three-Quart Plastic Bottle .....	80
Tamper-Proof Closure .....	83
Light and Oxygen Protection .....	85
Margarine and Butter Containers.....	89
Package Including Dish and Cover .....	89
Vinyl Resin Tub .....	91
Cheese Packaging.....	92
Packaging and Sterilization .....	92
Individual Slice Wrap.....	95
Electrical Discharge Adhesion .....	96
Hydrocolloid Release Agent.....	99

Foil Corrosion Prevention.....	102
Special Laminated Film .....	104
Tubular Bulk Package .....	105
Shaped Pizza Cheese .....	106
Carbon Dioxide Absorbent.....	109
Ice Cream Packaging .....	111
Modified Milk Carton .....	111
Carton Liner Sheet .....	113
Portion Control Package.....	115
Aseptic Bulk Pre-Mix.....	117
Yogurt Package.....	119
Sour Cream Package.....	121
<b>FRESH MEAT, POULTRY AND SEAFOOD.....</b>	<b>124</b>
Meat Packaging Trays .....	124
Juice Trough Design.....	124
Moisture Absorption Construction .....	126
Plastic Foam Tray.....	128
Plastic <b>Overwrap</b> .....	129
Vacuum Packaging .....	131
Shield for Bone Ends .....	131
Irregularly Shaped Meat Items .....	134
Special Laminate .....	136
Double Chamber Apparatus.....	139
Water Bath Evacuation Method.....	141
Oxygen Control Systems .....	144
Removable Impermeable Film.....	144
Dual Film System .....	148
In-Package Controlled Atmosphere .....	150
Special Oxygen Film .....	152
Reduced Light Transmission .....	154
Reinforced Paper Wrapper.....	156
<b>Hamburger</b> Packaging.....	157
Frozen Hamburger and Bun .....	157
Sheet Separators.....	159
Frozen Hamburger Sandwich .....	161
Wedge Packing Process .....	
Heat Shrinkable Bags .....	164
Poultry Packaging .....	167
Water Absorbent Wrap.....	167
Self-Basting Bag.....	169
Breeding Mix Pouch .....	170
Seafood Packaging.....	172
Air Void Elimination.....	172

Fractured Wax Coated Cartons .....	175
Clam Packaging .....	176
<b>PROCESSED MEATS .....</b>	<b>179</b>
Bacon Packaging .....	179
Plastic Trays .....	179
Polystyrene Backing Board .....	181
Corrugated Backing Board .....	183
Gas-Impermeable Package .....	186
Canned Bacon .....	188
Disposable Tray .....	189
Foldable Tray .....	191
Wiener Packaging .....	194
Product-Formed Package .....	194
Carbon Dioxide Gas Package .....	196
Rigid Vacuum Package .....	199
Leak-Indicating Package .....	200
Rigid Sterilized Container .....	203
Reusable Rigid Container .....	205
Bag Reseal Design .....	207
Rigid Shell Package .....	209
Blister Package Reseal .....	211
Hydrogen Gas Flushing .....	212
Roast-In-Bag .....	214
Saran Cooking Bag .....	216
<b>COOK-IN POUCHES .....</b>	<b>220</b>
Plastic .....	220
Sulfonated Films .....	220
Shock-Resistant Design .....	222
For Frozen Potpies .....	223
Bulk Container .....	225
Aluminum Foil .....	228
Aluminum Foil Laminates .....	228
Deactivated Aluminum Foil .....	230
Freeze-Dried Omelette Pouch .....	231
Pouch Venting Systems .....	233
Interrupted Seal Method .....	233
Two-Step Seal Method .....	235
Perforated Pouches .....	238
Two-Compartment Design .....	238
For Rice .....	240
Pouch with Net Structure .....	243
Other Materials .....	245

Paperboard Laminate .....	245
Plastic Flim with Foil Outer Wrap .....	246
Leak Test Method .....	248
<b>PREPARED FOOD PRODUCTS .....</b>	<b>251</b>
Tray Packages.....	251
With One-way Valve Seal .....	251
Hermetically Sealed Cover.....	252
With Temperature-Resistant Insert.....	253
Plastic Heat-and-Serve Tray.....	255
Heat-Retractable Polyethylene Window.....	258
Multiple Heat-Retractable Windows.....	260
For Microwave Ovens .....	262
Heat Conditioning Design .....	262
Selective Conductive Material .....	264
For Conventional or Microwave Ovens.....	267
Heating Electrodes.....	268
Strip Electrode Inserts .....	268
Ionic Gel Coating.....	271
Breakfast Food Package .....	274
Double Boiler Container .....	276
<b>BAKERY PRODUCTS.....</b>	<b>279</b>
Bread.....	279
Square Bottom Bag.....	279
Shrinkable Film Bag.....	281
Paperboard Release Coating.....	283
Sterilization Process.....	284
Pizza Package .....	285
Tortilla Shell Package.....	287
Frozen Leavened Dough .....	288
Package and Baking Pan.....	288
Uniform Shape Loaf.....	291
Expandable Cover .....	293
Peelable Container .....	294
Sandwich Packaging .....	297
Cut Pocket Design .....	297
Polystyrene Form Mold .....	298
For Roast Beef or Hamburgers .....	300
Fresh and Frozen Pie Packaging.....	302
<b>Piecrust</b> Dough Package.....	302
Container Tabs for Pan Stability .....	304
Supporting Ring Design .....	306
Tray for Fried Pies.....	307

Layer Cake Packaging.....	310
Liner Mold and Server Board.....	310
Molded Liner and Cover.....	312
<b>PACKAGING FOR OTHER FOODS.....</b>	<b>314</b>
Popcorn Packaging.....	314
Folded Gusset Cover.....	314
Transparent Plastic Cover.....	316
Special Pan Rim.....	317
Special Flange and Crimp.....	319
Restricted Pressure Release.....	319
Microwave Oven Package.....	321
Vacuum Packed Flat Bag.....	323
Colored Popcorn Package.....	324
Toaster Food Packaging.....	326
Pull-Tab Vent.....	326
Pull-Tab Opening.....	328
Heat Balance Design.....	331
Pour Spout Design.....	334
Self-Contained Handle.....	335
Precooked Bacon.....	338
Dough Sheath Protection.....	340
Compressed Bacon Package.....	341
Simulated Bacon Package.....	343
Nonfoil Package.....	346
Frozen Pizza Package.....	347
Packaging for Formed Potato Chips.....	349
Tubular Container.....	349
Closed Loop Container.....	351
Inner Cushion Design.....	352
Miscellaneous Packaging.....	354
Rice Bag.....	354
Dry Breakfast Cereal.....	356
Expandable Confection Bag.....	358
Package for Heating Over Direct Fire.....	359
<b>FRUITS AND VEGETABLES.....</b>	<b>364</b>
Vegetable Packaging.....	364
Stretchable Net Wrap.....	364
Moisture Absorbent Material.....	366
Sheet-Like Support Design.....	367
Fruit Packaging.....	370
Design to Reduce Bruising.....	370
Depressed Protective Sheet.....	371

Wedged Protective Sheet.....	373
Cradle Construction.....	375
Plastic Foam Protection.....	376
Special Styrene Film.....	378
In-Package Atmosphere Control.....	379
Double Film System.....	379
Selective Permeability Film for Lettuce.....	384
Selective Permeability Film for Bananas .....	385
<b>COFFEE PACKAGING.....</b>	<b>388</b>
Two-step Vacuum Method.....	388
Antistatic Seal .....	390
Variable Volume Container.....	392
Percolator Pack .....	394
Unit Package Percolator .....	396
Gas Pressure Release.....	397
Unsealed One-way Valve.....	397
Ribbon Valve System.....	400
One-way Valve Design .....	403
<b>COMPANY INDEX .....</b>	<b>406</b>
<b>INVENTOR INDEX .....</b>	<b>408</b>
<b>U.S. PATENT NUMBER INDEX.....</b>	<b>412</b>