1 **BINDING**
2 .Methods
3 ..Compacting and binding
4 .With automatic or material-triggered control
5 .With material winding or folding
6 .With material severing
7 .With material depositing or discharging
8 .Binder applying
9 ..Preformed continuous annular binder
10 ..With precutting of binder to length
11 ..Plural flexible section binder
12 ..Through annular material
13 ..Helically along material
14 ..Indexing material between successive placements
15 ..By rotation of material
16 ..By swing of material gripping jaw
17 ..Binder supported across passageway for material
18 ...With material conveyer
19 R ....With threader crossing material path
20 .....Delivering binder to end gripper
21 ......Concurrently delivering to joiner
22 ....Indexing gripper
23 ......Shifting gripper delivers binder to joiner
24 .....Threaders
19 A .....Needle brake
25 ..Curved guide channel for pushed binder
26 ...Material receiving loop channel
27 ..Orbit traveling binder placer
28 ...Reversing for successive placements
29 .Binder tighteners and joiners
30 ..Sleeve or clamp joining
31 ..Twisters
32 .Binder tighteners
33 R .Joiners
33 PB ..Plastic band
34 .Binder retaining material holders
35 **METHODS**
36 .With pre-enclosing in textile
37 .With separation from material of liquid expressed
38 .With heating or cooling
39 .With cutting or comminuting
40 .With winding or folding
41 .Forcing through constricted passage
42 .Successive compressions from different directions
43 **AUTOMATIC OR MATERIAL TRIGGERED CONTROL**
44 .Of insertion of separator between successive material charges
45 .of material addition, deposition, or discharging
46 .Of parallelism of platens
47 .Of roll separation or speed
48 .Of actuating means
49 ..Material presence or position starting
50 ..By pressure applied to material
51 ...With dwell time control
52 ...Reversing
341 **SAFETY DEVICE**
342 .Means to disable or to forestall power to the press
343 ..Multiple triggers to start
344 ...Requires the use of both hands
345 ..Associated with door or cover
346 ..Overload protection
347 ..Hydraulic or pneumatic safety system
348 ..Optical condition sensor
349 .Barrier type (e.g., guard, shield, screen, hood, etc.)
350 ..Blocking mechanism between press surfaces
351 ..Convoluted or elongated feed chute
352 ..Debris shield attached to moving press member
353 **INTERRELATED**
54 **PORTABLE RECEPTACLE LID APPLYING**
55 .With receptacle transfer means
56 .With lid fastening
57 .With gathering of contents
58 .With lid locating means
59 .Receptacle mountable
60 .Upwardly displaced receptacle
61 .Concurrently pressing spaced areas of lid

62 ..Loops or bails receiving receptacle
63 ..Approaching arms embracing receptacle
64 ..Translating projecting arms
65 **COMPACTING ENSILAGE WITHIN SILO**
66 .With depositing or distributing
67 .Silo wall guide rollers
68 .Vertical center post guided rollers
69 .Tamper suspended within silo
70 R **WITH ADDITIONAL TREATMENT OF MATERIAL**
71 .Adding materials
72 ..Recycling
73 ..Liquid and/or steam
74 ...To material being fed or conveyed
75 ....Interstage
76 .Winding or folding sheet, web or strand
77 ..With subsequent transfer to repressing press
78 ..With shape retaining means
79 ..With winding mandrel stripper
80 ..Folding zigzag
81 ...Pivoted receiver
82 ..Circularly deposited through eccentric opening
83 ...With presser roll along opening
84 ...With pusher moving to opening
85 ...Receding receiver
86 ..Mandrel and opposed presser roll
87 ..Apron type (embracing belt loop)
88 ..Between opposed belts
89 ..Within group of three or more rolls
90 .Separating materials (vacuumizing here)
91 ..Plural solids
92 .Heating, cooling, or drying
300 ..Press for a brake lining
301 ...Electric heater
302 ..Plural diverse presses
303 ..In press material handling train
304 ...In feed train
305 ..In press
306 ...Endless conveyor-type press
307 ....Plural endless conveyor presses
308 ....Means to control temperature
309 ....Multiple temperature treating zones
310 .....Having cooling
311 ....Platen in thermal contact with endless conveyor
312 .....Having cooling
313 ....Drum in thermal contact with endless conveyor
314 .....Having cooling
315 ...Reciprocating platen-type press
316 ....Piston and box type
317 .....Heating or cooling element in box wall
318 ......Electric heater
319 ....Means to control temperature
320 ....Electric heater
321 ....Platen having particular thermally conductive feature
322 ....Temperature modulating insert
323 ....Press apparatus thermally insulated from heating/cooling means
324 ....Plural reciprocating platens
325 .....Heating or cooling element in platen
326 ....Heating or cooling element in platen
327 ...Roll-type press
328 ....Electric heater
329 ....Means to independently heat or cool different sections of roll
330 ....Roll surface has particular thermally conductive feature
331 ....Plural stage or pass
332 ....Roll temperature conditioning means is external of roll, but in direct temperature conditioning contact with roll
333 .....Gas (e.g., steam)
334 ....Roll heated or cooled internally
335 .....Temperature conditioning fluid flow passage in roll surface
336 .....Roll core has a temperature conditioning fluid flow passage
337 ...Helix-type press
338 ....Plural helices

339 ....Temperature conditioning means in chamber wall or jacket
340 ....Temperature conditioning means within helix
94 .Cutting, breaking, piercing, or comminuting
95 ..In press material handling train
96 ...In feed train
97 ....Cutter
98 R ..In press
98 A ...Hay bale hole puncher
70 A .Crop crushing
99 **WITH ALARM, SIGNAL, INDICATOR, OR TEST MEANS**
100 **WITH GROUND-TRAVERSING WHEELS OR GUIDES**
101 **WITH CLOTH ABOUT CAKE ENFOLDER**
102 **COMBINED**
103 **CONVERTIBLE**
104 **WITH DRAIN MEANS FOR EXPRESSED LIQUID**
105 .Plural liquids (peel oil)
106 .Liquid impelling means
107 .Drain tube inbedded in material
108 ..With piercing point or edge
109 ..Stacked boxes or plates
110 .Drainage through or along pressure surface
111 ..With valve or adjustable flow regulator
112 ..With clearer or cleaner
113 ..Stacked boxes or plates
114 ...Flexibly connected
115 ...Boxes or plates
116 ..Movable surface
117 ...Helix
118 ...Endless conveyer
119 ....Trough forming
120 .....Material enclosing
121 ...Roll
122 ..Textile containing pressure surface
123 ...Pendant bag type
124 ...Textile sustaining hoops
125 ..Fixed abutment or end wall surface
126 .Drainage through or along surface spanning pressure surfaces
127 ..Box, frame, cage, or annular wall
128 ...Assembled rings or hoops
129 ...Assembled slats or staves
130 .External strainer
131 .Expressed liquid collector or receptor
132 ..Demountably supporting press
133 ...Drinking receptacle type
134 ..With dispenser
135 ...Pouring spout
136 .Guards or shields
137 **PLURAL DIVERSE PRESSES**
138 .With subsequent press conveying while pressing
139 ..Successive diverse presses each conveying
140 ..Loaded from other type press by transfer
141 ..Loaded by transversely moving platen or packer
142 ...Moving through inlet
143 ...Plural transversely moving platens
144 **CONCURRENT PRESSING AND CONVEYING**
145 .Helix-type compressor
146 ..Right and left helices
147 ..Overload release (yieldable choke)
148 ..With valve or choke adjustment
149 ..Detachable choke
150 ..Helix interengaging abutment
151 .Endless conveyer type
152 ..With conveyer charging or discharging means
153 ..Co-acting presser roll
154 ..With intermediate backup device
155 R .Roll type
156 ..Non-rotary co-acting press element
157 ..External and internal rolls
158 R ..Intersecting or inclined roll axes
158 C ...Opposed discs
159 ..Vertical roll axes
160 ..With backing roll
161 ..Plural stage or pass
162 R ...Common roll
163 R ....Yieldable
164 .....Adjustable line of force
165 .....Differentially
163 A .....Calendar pressure regulation
166 ....With turn plate or roll
162 B ....Roll crown control
167 ...Chute or conveyer between stages
168 ..Roll adjustment

169 ...Yieldable
170 ....Fluid pressure
171 ....Spring
172 ..Roll drive
173 ..With material handling or guiding
174 ...Roll strippers
175 ...Roll bearing guards
176 ..Roll pairs
155 G ..Glass making
177 .Moving compression chamber
178 ..Platen or piston type
179 .Plunger and casing type
180 ..With successive charge separating means
181 ...Plunger carried separator supply
182 ...Separator series on endless belt
183 ...Pusher inserted
184 ...Separator structure
185 ..Plural compression chambers
186 ...Aligned oppositely conveying
187 ..With material rebound restrainer or tucker
188 R ..With feeding or discharge handling
189 ...Conveying to or through inlet
188 BT ...Bale thrower
190 ..With inlet closure
191 ..Adjustable choke
192 ...Overload relieving (yieldable)
193 **PLURAL PRESSES**
194 .Stacked boxes or plates
195 ..Plural stacks
196 ..With charging and/or discharging
197 ...Fluent supply
198 ...Cake loosening or ejecting
199 ..With positioning or supporting means
200 ...Link
202 ..Hinged plates
203 ..Box or pot type
204 ...With compression lock
205 ...With openings (e.g., for removing or loosening cake)
206 ...Separable sections
207 .With material transfer from press to press
208 .Concurrently actuated
209 ..Alternately compressing
210 **ROLL AND PLATEN**
211 **WITH FLEXIBLE OR DEFORMABLE PRESSURE SURFACE**
212 .Circumferentially tightened loop
213 **INTERFITTING CUPS - FRUIT JUICER TYPE**
214 **RECIPROCATING PRESS CONSTRUCTION**
215 .With material depositing means
216 ..Feeder controlled plunger actuation
217 ..Box traversing spreader
218 .With material displacing means (e.g., ejector)
219 .With platen position or compression lock
220 .With material rebound restrainer
221 .Plural or indexing material supports or receptacles
222 ..Belt
223 ..Rotary
224 ..Slidable
225 ..Partitioned or compartmented box
226 .With transversely displaceable piston or movable platen
227 ..Portable receptacle mountable
228 ..Pivoted or detachable beam
229 R .With transversely displaceable box, receptacle, or stationary platen
229 A ..Compressing in separable container
230 .Central strain rod type
231 .C-frame type
232 .Plural movable platens on intersecting paths
233 .Oscillatory or hinged platen or piston
234 ..Plier type
235 ...With impaling support for material
236 ..Parallel spaced pairs
237 .Plural movable platens on side-by-side paths
238 .Combined reciprocating and rotating piston or platen
239 ..Piston advanced by box rotation
240 .Box and piston type
241 ..Piston carried box frame scrapers
242 ..Adjustable size
243 ..Plier type (i.e., plural handles)
244 ..Plural opposing pistons
245 ..Box guided piston

246 ..Movable or removable box section
247 ...Separable box head and box frame
248 ....Insert of false head
249 ....With guided motion
250 .....Pivoted
251 .....Axially slidable
252 ...Separable box frame sections
253 ....Piston operator actuated frame section
254 ....Counterbalanced
255 ....Hinged
256 .Platen tripped stop or reverse
257 .Range of movement adjustment
258 R .Platen level compensating
258 A ..Parallel pressure surfaces
259 .With plunger return cushioning
260 .With actuation releasing for rebounding or biased return
261 ..Over center releasing
262 ..Disengaging rack and pinion
263 ..Interruption in rotated camming surface
264 .Opposed platens both actuated
265 .Spring or weight
266 ..Return bias
267 ...Opposing flexible element actuator
268 ..Interposed in actuating mechanism
269.01 .Fluid pressure actuation
270 ..Combined with mechanical actuation
271 ...Mechanical force mutiplier
272 ....Toggle
269.02 ..Platen moved by elastically deformable pressure member
269.03 ...Plural pressure members
269.04 ...Inflatable bag
269.05 ..Pressure intensifier
269.06 ..Multiple or staged driving means
269.07 ...Displacement additive
269.08 ...Pressure additive
269.09 ....Axially aligned pistons
269.1 ....Independently actuated
269.11 ....Pull-down press
269.12 ..Platen positioning means
269.13 ..Pull-down press
269.14 ..Fluid supply system detail
269.15 ...Manually operable fluid system
269.16 ...Particular valve feature
269.17 ..Frame assembly detail
269.18 ..Rod, piston, or cylinder detail
269.19 ...Cylinder position adjustment
269.2 ...Platen pivotally connected to piston or rod
269.21 ...Gasket or packing around piston
273 .Speed or power variable by power path selection
274 .Intermittent actuator
275 ..Plural
276 ...Acting at opposite ends of cross bar on movable platen
277 ...Cross connected alternately acting
278 .Flexible element actuator
279 ..Varying radius windlass
280 .With mechanical force multiplier
281 ..Transversely forced linkage joint (single toggles here)
282 ...Shaft turned cam or crank and pitman
283 ...Lever in linkage
284 ....Lever carried toothed sector
285 ....Plural
286 ...Plural toggle joints
287 ....Screw and nut between joints
288 ..Rack and pinion
289 ..Screw and nut
290 ...Plural screws
291 ..Cam or tapering wedge
292 ...Rotary or swinging
293 ..Fixed fulcrum lever
294 ..Plural oppositely moving struts
295 **PLATENS OR PRESSURE SURFACES**
296 .Flexibly connected opposed
297 .Porous mats
298 **CLOTHS FROM CAKE STRIPPERS**
299 **MISCELLANEOUS**

CROSS-REFERENCE ART COLLECTIONS

901 **SCRAP AUTO BODY CRUSHERS**
902 **CAN CRUSHERS**
903 **PELLETERS**
904 .Screw
905 .Inner roll
906 .Reciprocating
907 .Rotary
908 .Series rolls
909 .Adjustable die openings
910 **MEAT**
911 **JET OR EXPLOSIVE**

912 **BINDER CONTAINERS**
913 **TRUSS PRESSES**
914 **SCRAP PAPER**
915 **FIXED UPPER RAM, LOWER MOVABLE RECEPTACLE**
916 **COIL TIGHTENER AND BINDER**
917 **MAGNETIC**
918 **BOLSTER AND DIE**

FOREIGN ART COLLECTIONS

FOR **CLASS-RELATED FOREIGN DOCUMENTS WITH ADDITIONAL TREATMENT OF MATERIAL (100/70 R)**
.Heating, cooling, or drying (100/92)
FOR 100 ..In press (100/93R)
FOR 101 ...Platen press (100/93P)
FOR 102 ....Brake lining (100/93PB)
FOR 103 ...Roll press (100/93RP)
FOR 104 ...Screw press (100/93S)