[54]	METHOD AND APPARATUS FOR FEEDING TABS OR DISCS TO AN AUTOMATIC STAPLE OR NAIL GUN		
[75]	Inventors:	Karl H. Zylka, Ft. Lauderdale; Augustus M. Buckley, Jr., West Palm Beach, both of Fla.	
[73]	Assignee:	Quick-Tab Fasteners, Inc., Pompano Beach, Fla.	
[21]	Appl. No.:	429,148	
[22]	Filed:	Oct. 30, 1989	
[51]	Int. Cl.5	<b>F16B 43/00;</b> B27F 7/02;	
[52]	U.S. Cl	B42B 4/00 <b>411/531;</b> 411/162; 411/943; 227/48; 227/50	
[58]	Field of Search		
[56]		References Cited	
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2,069,402 2/1937 Cowlin			
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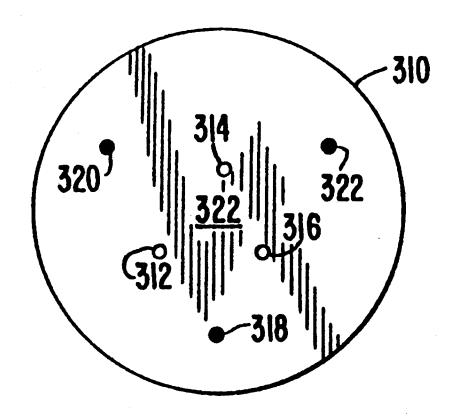
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Primary Examiner—Neill R. Wilson
Attorney, Agent, or Firm—Eckert, Seamans, Cherin &
Mellot

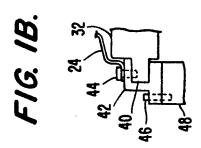
#### [57] ABSTRACT

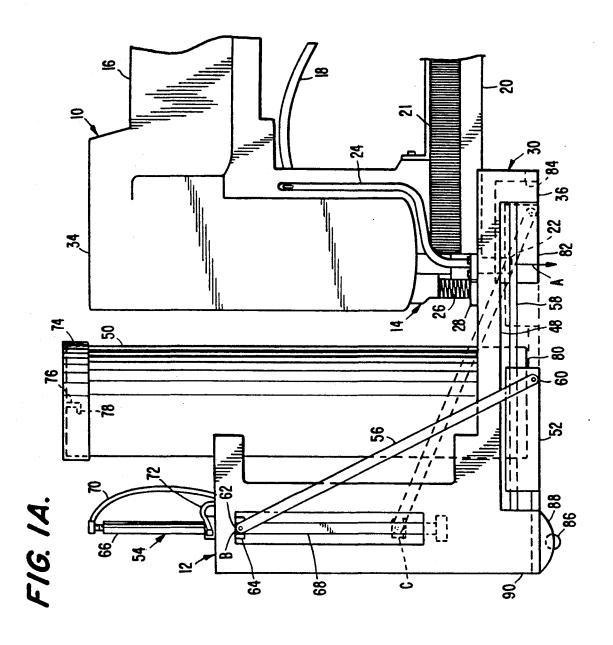
A method of feeding the discs to the automatic staple or nail gun includes the steps of providing a plurality of discs stacked atop one another, shuttling a first disc from the stack to a position normal to the staple or nail expulsion path, and retaining that first disc at that position until the staple or nail is expelled from the gun. The apparatus includes a shuttle which is moved from a position immediately below the stack of discs to a second position at which the disc, carried by the shuttle carriage, is grasped by a clip. The clip retains the disc in a position normal to the path of staple or nail expulsion. The discs have dimples protruding from both planar surfaces of the disc. The dimples are predisposed in a predetermined pattern such that the protrusions from one surface form a pattern which is non-equivalent to the pattern formed by the protrusions extending from the other surface of the disc. This dimple pattern is in a peripherally spaced band on the disc. The shuttle carriage is configured to carry these discs on planar surfaces beyond the band of dimples.

13 Claims, 7 Drawing Sheets









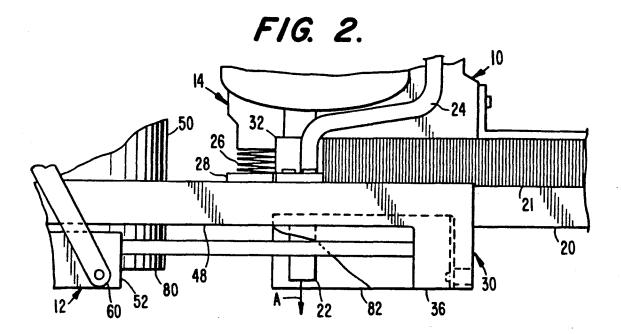


FIG. 3A.

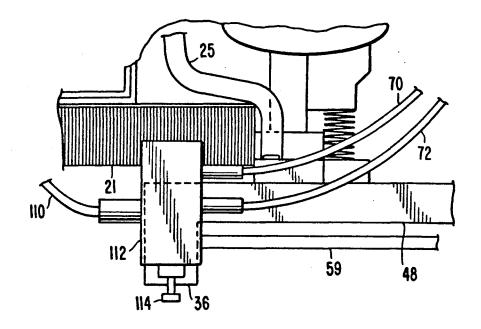
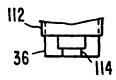


FIG. 3B.





## F1G. 4.

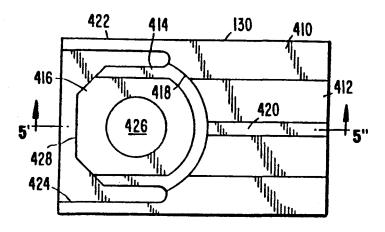
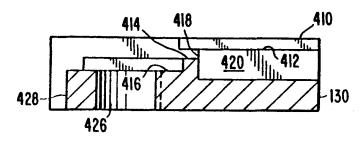
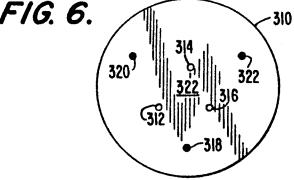


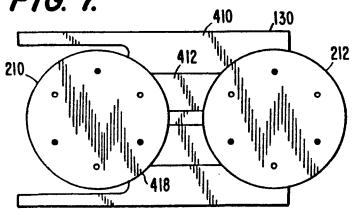
FIG. 5.



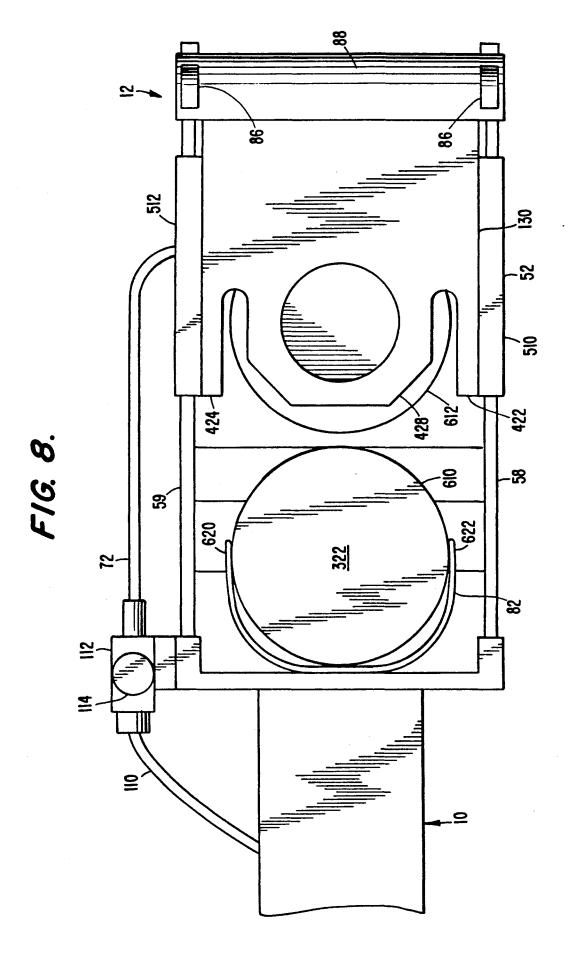




F1G. 7.









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