



[54] VARIABLE PITCH STRUCTURED OPTICAL FILM

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[52] U.S. Cl. 428/156; 428/141; 428/156; 428/913; 428/179; 428/167; 428/163; 359/530; 359/831; 359/834; 359/833; 359/837; 362/337; 362/339; 362/26; 385/146; 385/901; 385/36

[58] Field of Search 428/141, 156, 428/913, 179, 167, 163; 359/530, 831, 834, 833, 837; 362/337, 339, 26; 385/146, 901, 36

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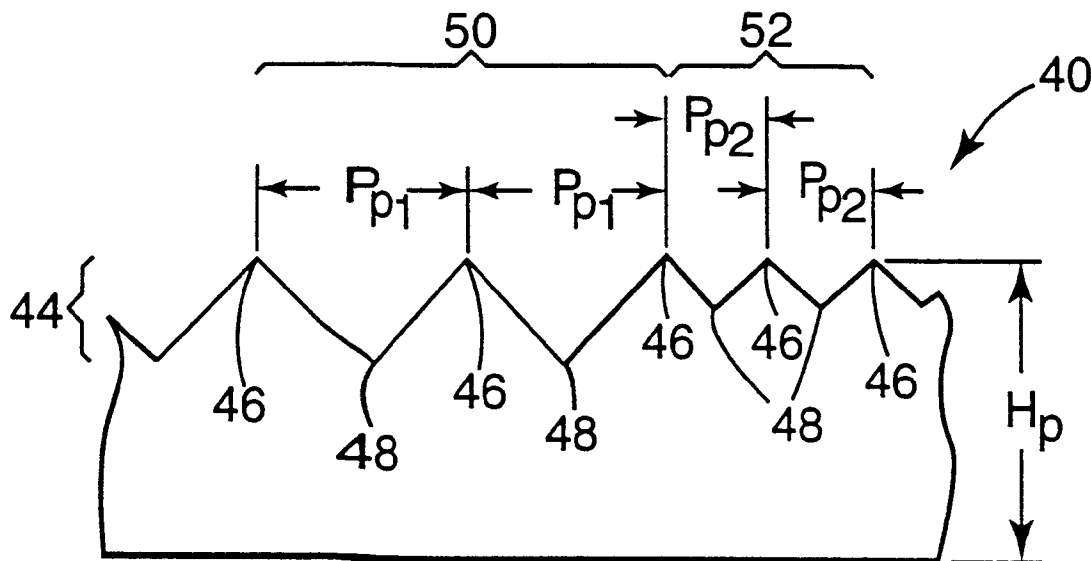
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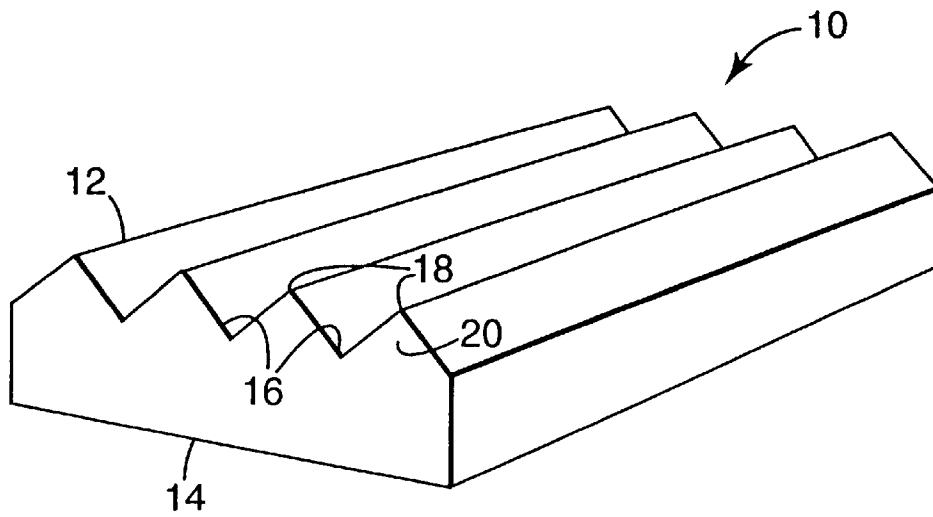
Primary Examiner—William P. Watkins, III  
Attorney, Agent, or Firm—Stephen W. Buckingham

[57] ABSTRACT

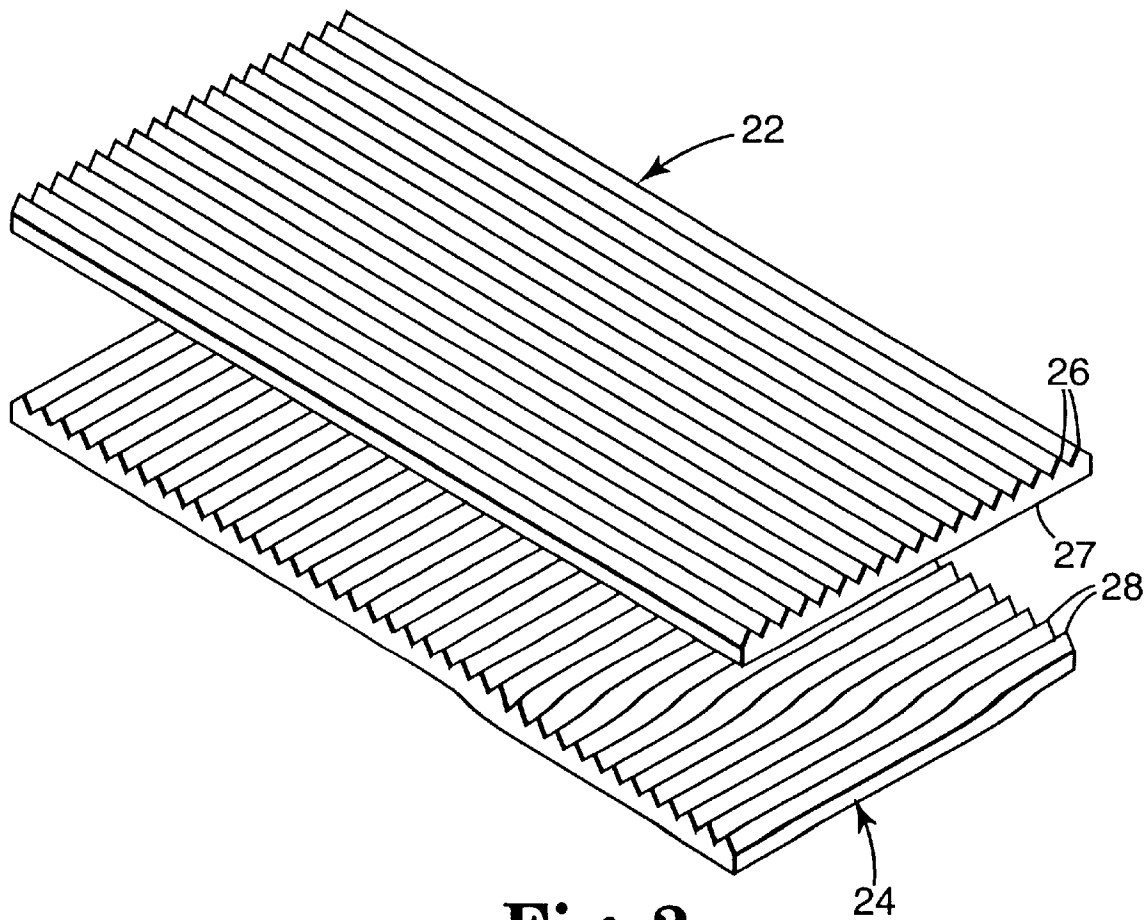
The present invention includes a structured optical film with variable pitch peaks and/or grooves to reduce the visibility of moiré interference patterns and optical displays incorporating one or more layers of the film. The pitch variations can be over groups of adjacent peaks and/or valleys or between adjacent pairs of peaks and/or valleys.

35 Claims, 4 Drawing Sheets

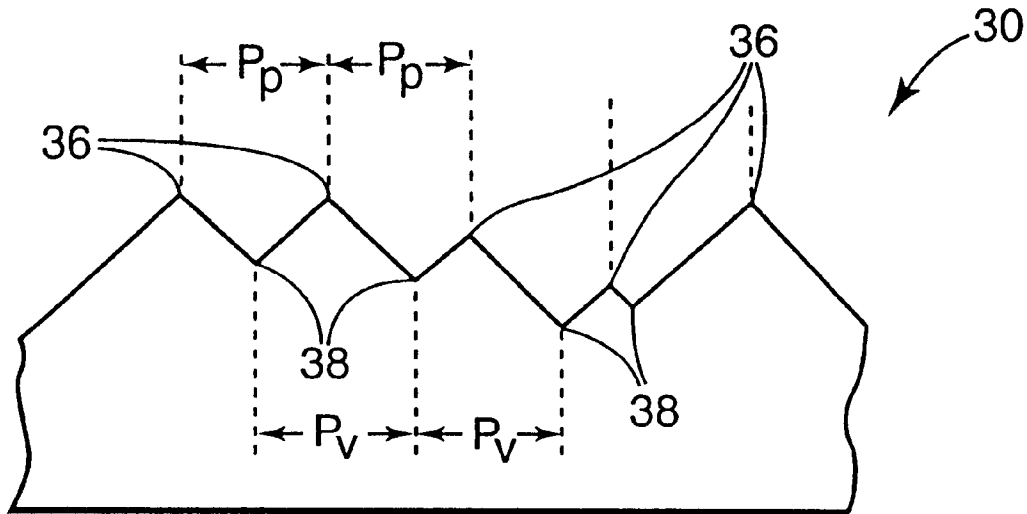




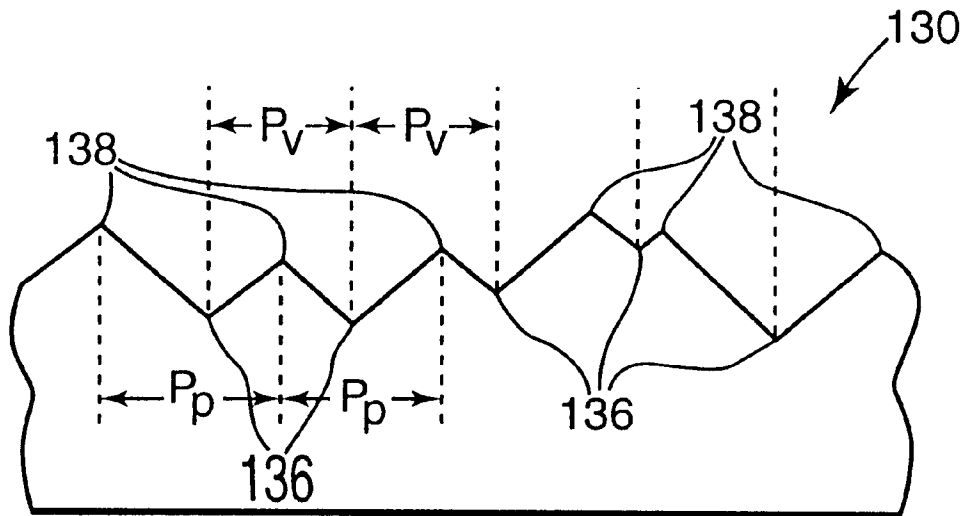
**Fig. 1**



**Fig. 2**



**Fig. 3A**



**Fig. 3B**

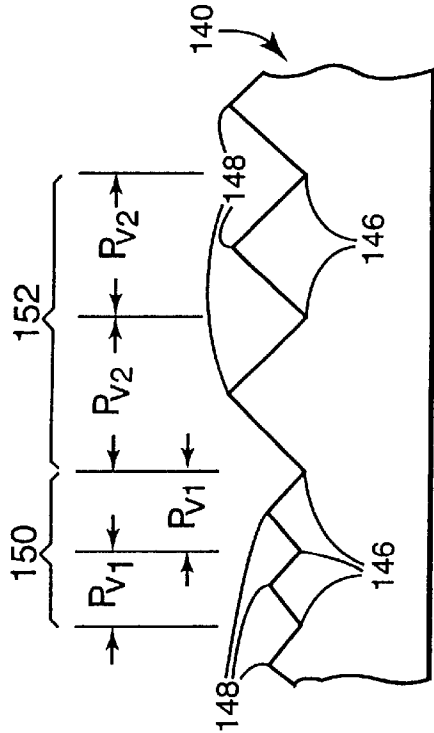


Fig. 4B

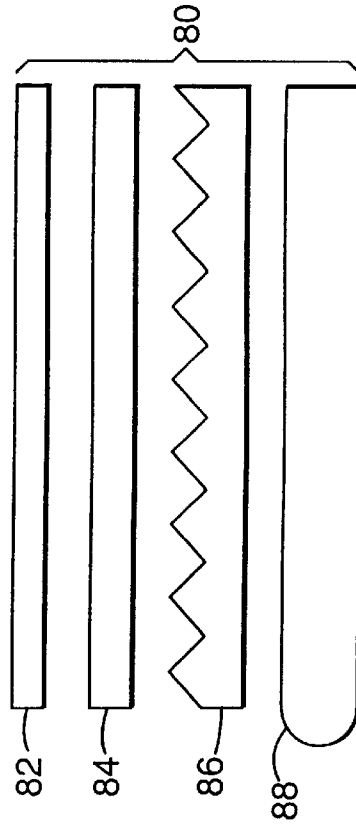


Fig. 6

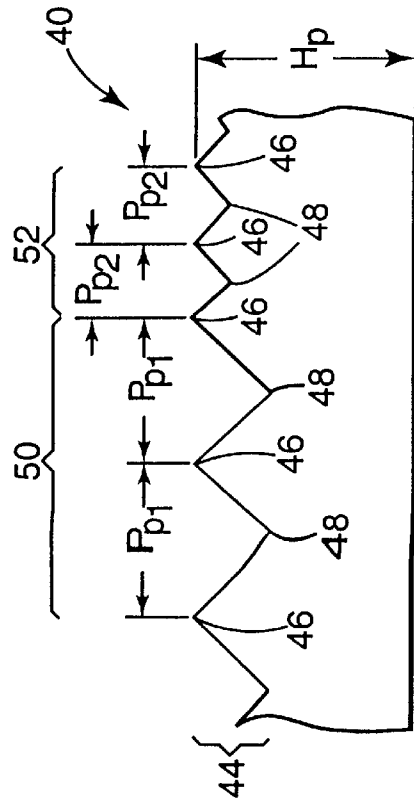


Fig. 4A

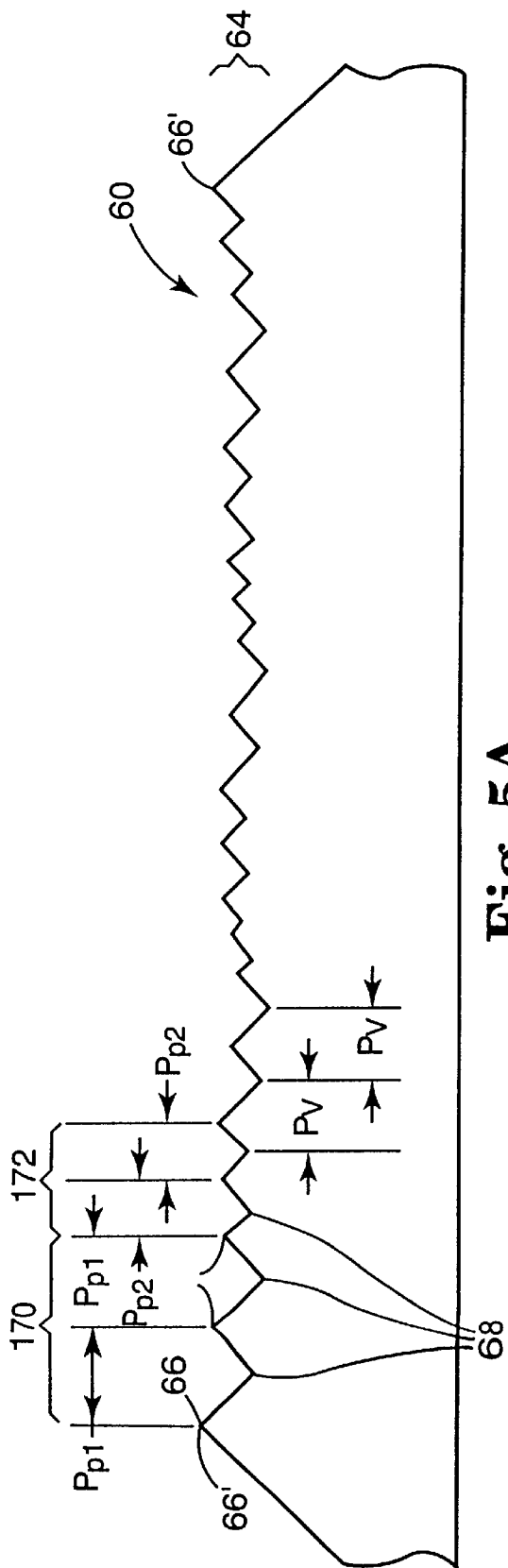


Fig. 5A

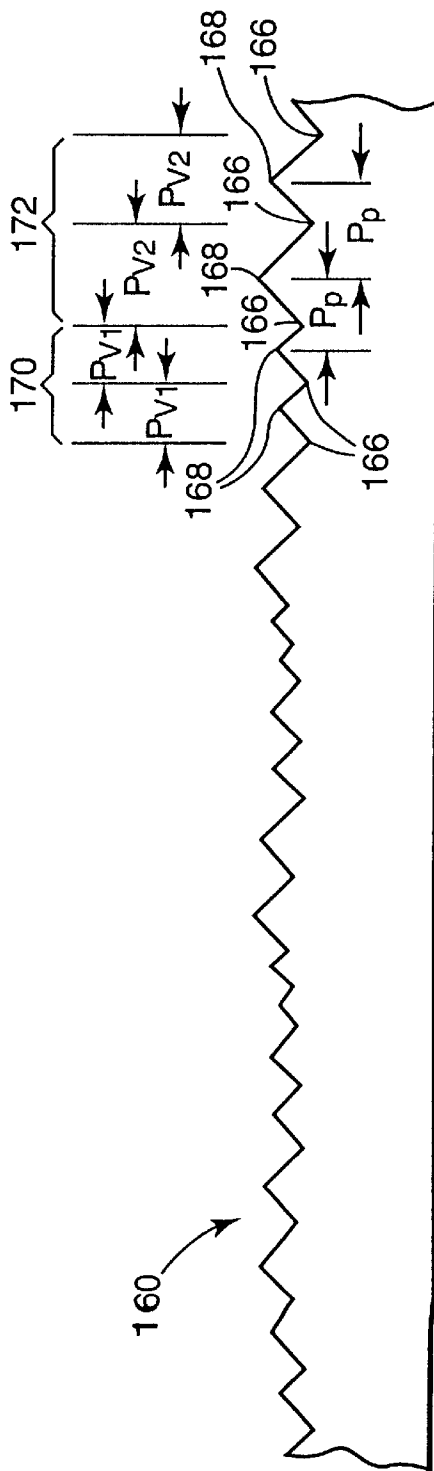


Fig. 5B

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