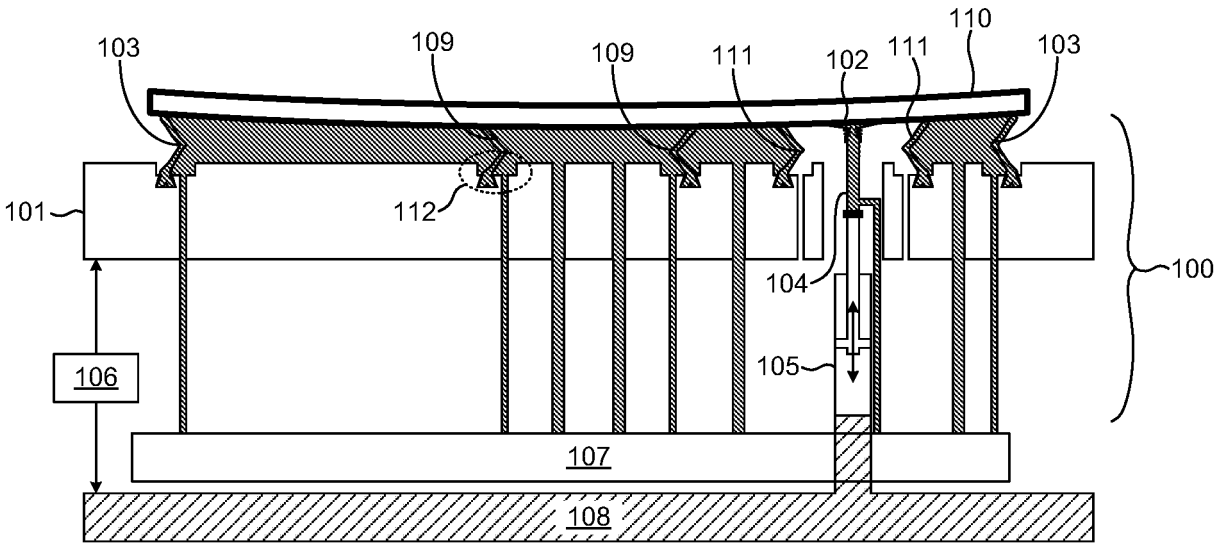
103
109
109
111
102
111
110
103
101
112
104
100
106
105
107
108

FIG. 1

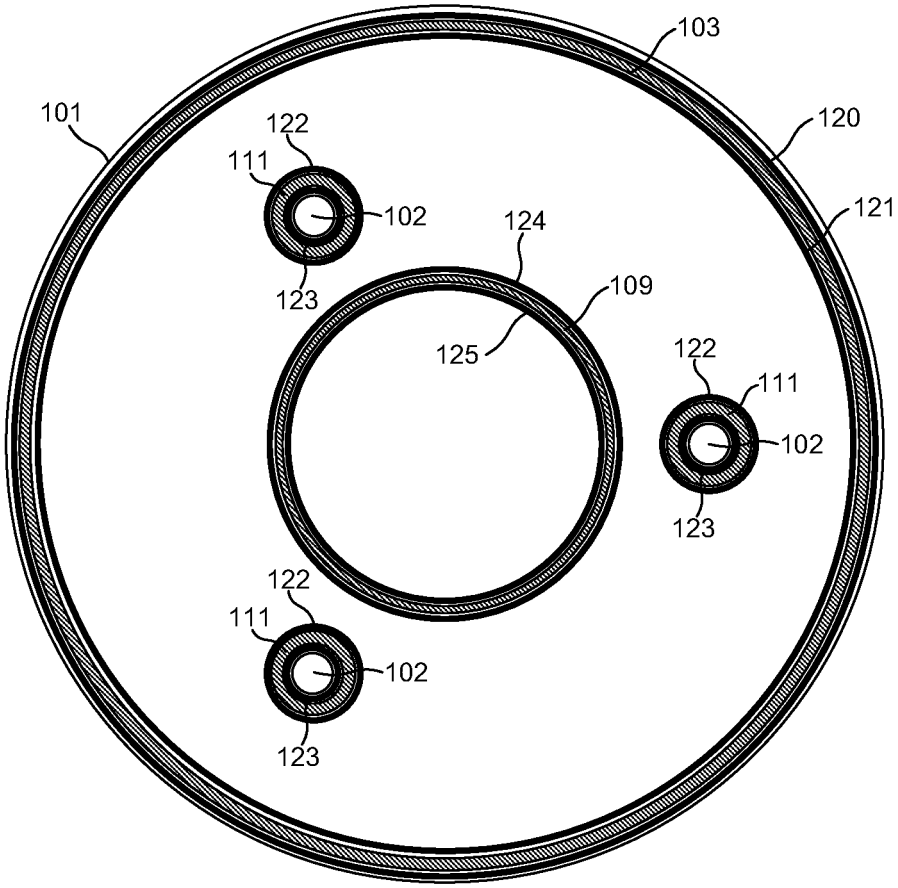
103
101
120
122
111
102
121
124
123
109
125
122
111
102
123
122
111
102
123

FIG. 2

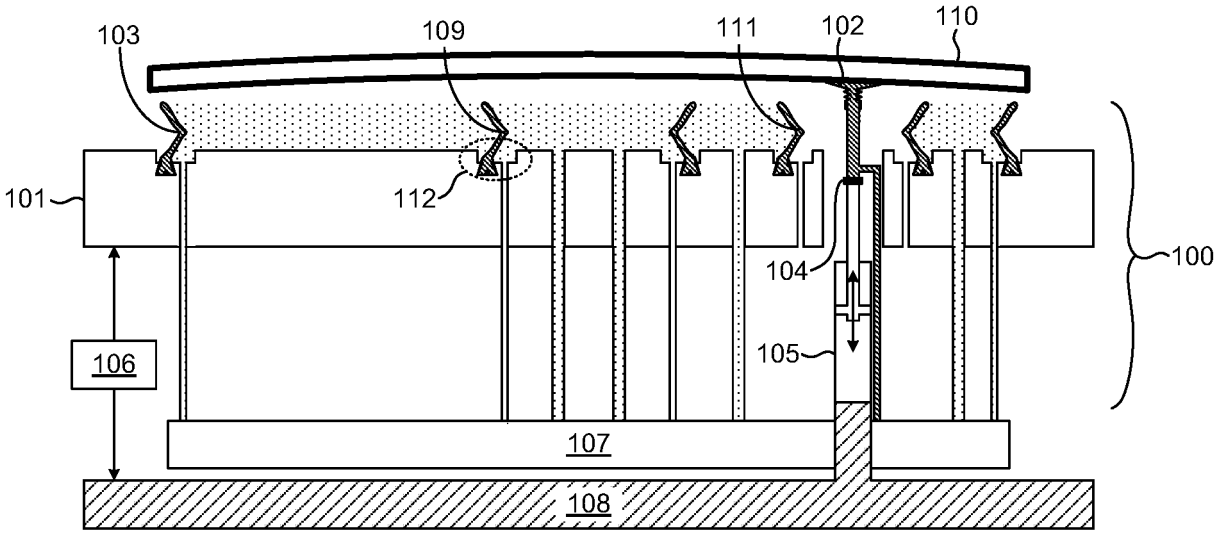
103
109
111
102
110
101
112
104
100
106
105
107
108

FIG. 3

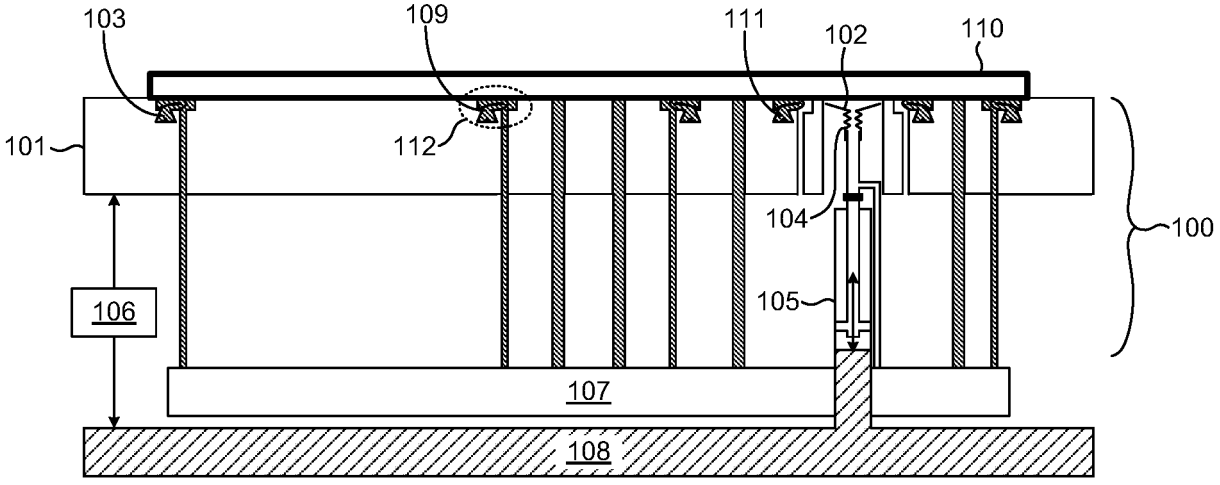
103
109
111
102
110
101
112
104
100
106
105
107
108

FIG. 4

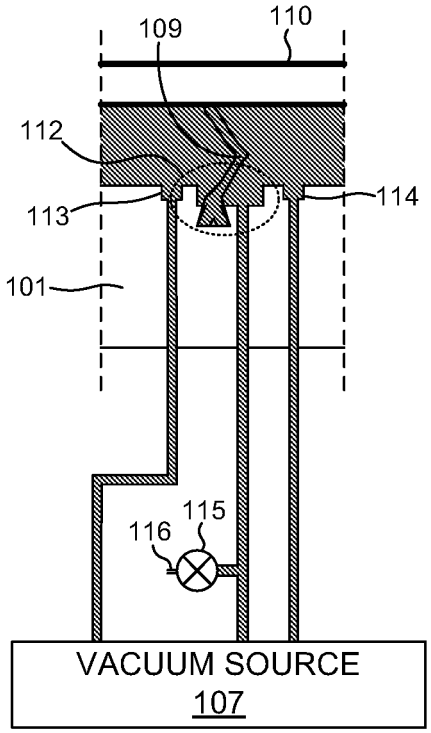
109
110
112
113
114
101
115
116
VACUUM SOURCE
107

FIG. 5

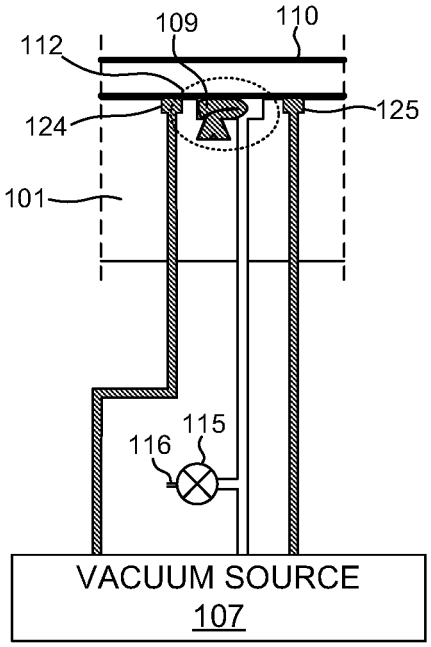
109
110
112
124
125
101
115
116
VACUUM SOURCE
107

FIG. 6

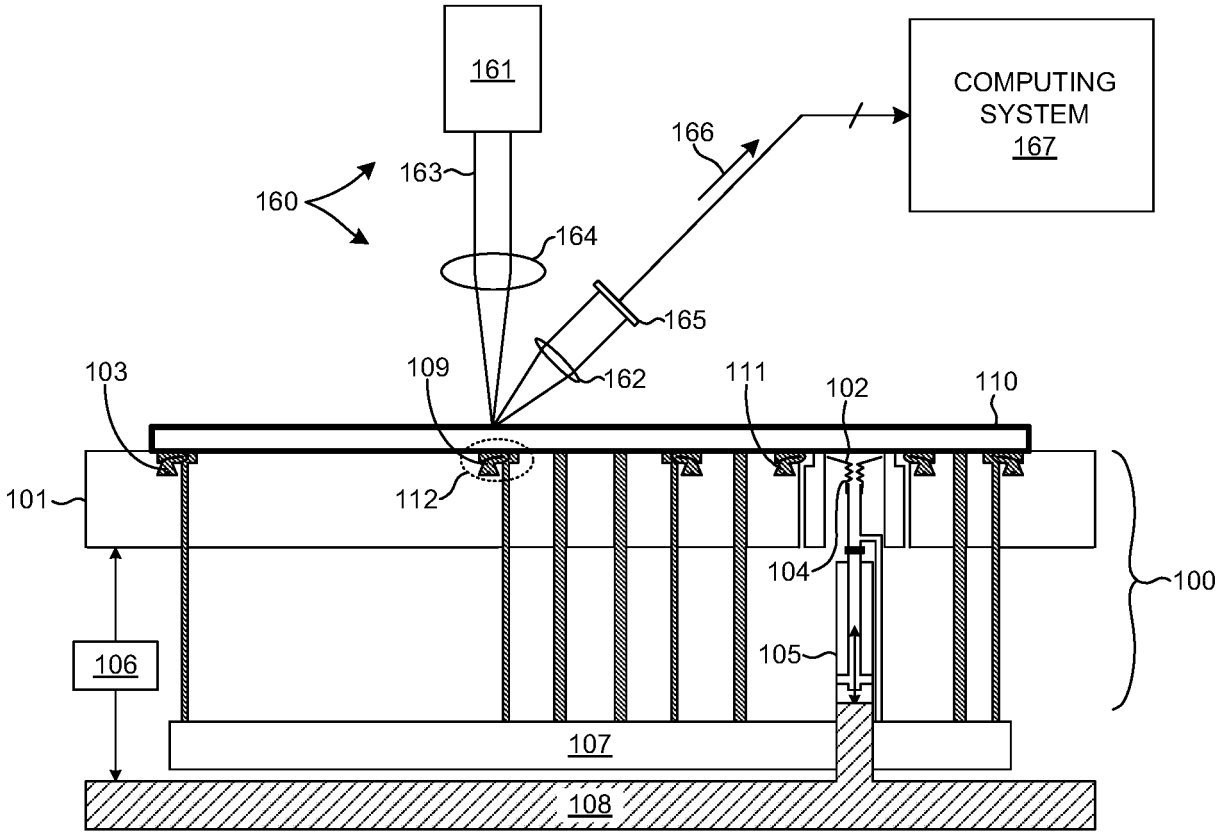
161
COMPUTING SYSTEM 167
166
163
160
164
165
162
103
109
111
102
110
101
112
104
100
106
105
107
108

FIG. 7

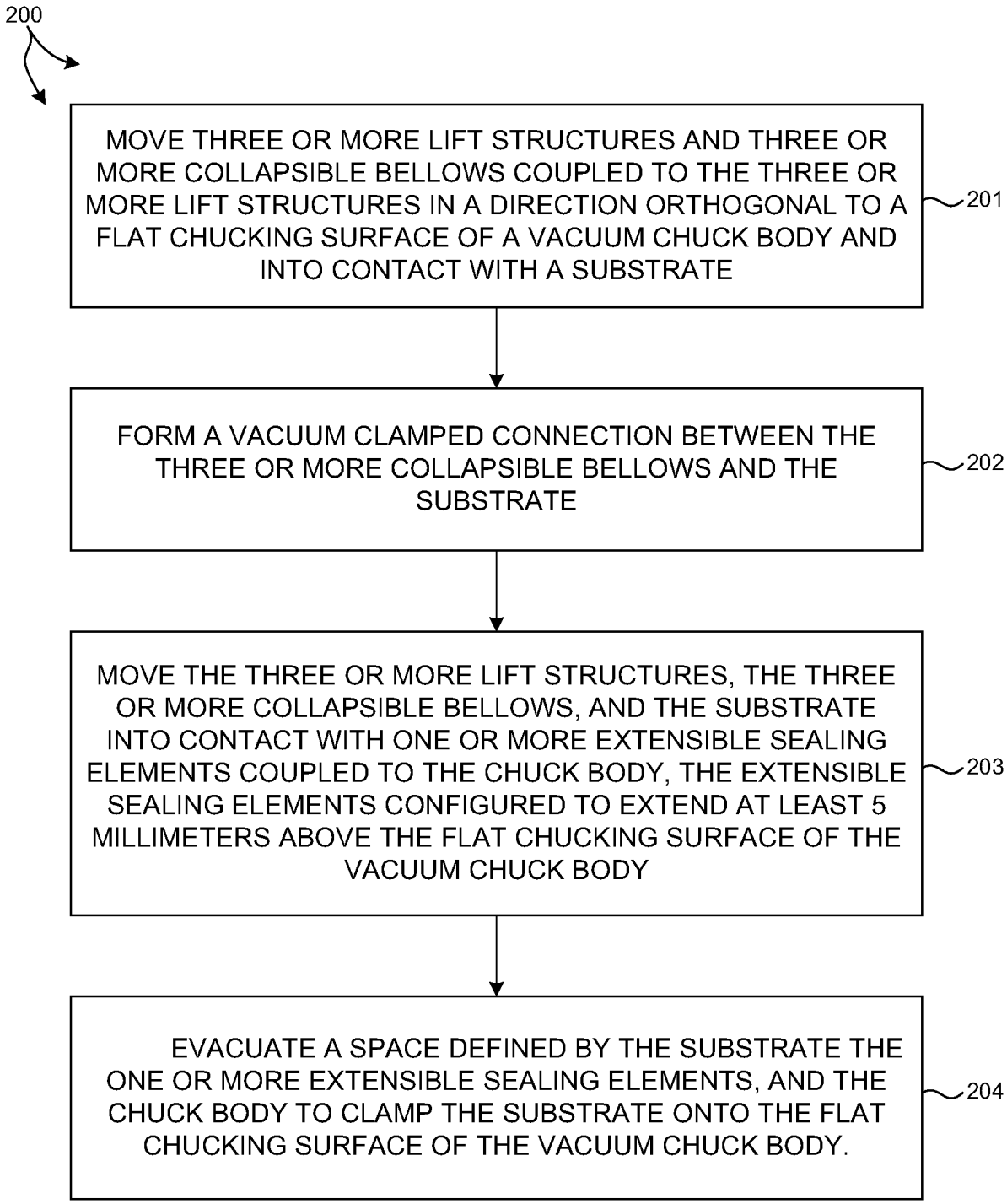
200
MOVE THREE OR MORE LIFT STRUCTURES AND THREE OR MORE COLLAPSIBLE BELLOWS COUPLED TO THE THREE OR MORE LIFT STRUCTURES IN A DIRECTION ORTHOGONAL TO A FLAT CHUCKING SURFACE OF A VACUUM CHUCK BODY AND INTO CONTACT WITH A SUBSTRATE
201
FORM A VACUUM CLAMPED CONNECTION BETWEEN THE THREE OR MORE COLLAPSIBLE BELLOWS AND THE SUBSTRATE
202
MOVE THE THREE OR MORE LIFT STRUCTURES, THE THREE OR MORE COLLAPSIBLE BELLOWS, AND THE SUBSTRATE INTO CONTACT WITH ONE OR MORE EXTENSIBLE SEALING ELEMENTS COUPLED TO THE CHUCK BODY, THE EXTENSIBLE SEALING ELEMENTS CONFIGURED TO EXTEND AT LEAST 5 MILLIMETERS ABOVE THE FLAT CHUCKING SURFACE OF THE VACUUM CHUCK BODY
203
EVACUATE A SPACE DEFINED BY THE SUBSTRATE THE ONE OR MORE EXTENSIBLE SEALING ELEMENTS, AND THE CHUCK BODY TO CLAMP THE SUBSTRATE ONTO THE FLAT CHUCKING SURFACE OF THE VACUUM CHUCK BODY.
204

FIG. 8