ABSTRACT

SEMICONDUCTOR MANUFACTURING APPARATUS AND METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

Provided is a semiconductor manufacturing apparatus including: a camera (22), a collet (19), a collet driving unit (20), a plunge-up mechanism (21), and a controller unit (30). The controller unit (30) includes: a memory (32) for storing positions of semiconductor dies (15); a detection program (36) for sequentially detecting absolute positions of the semiconductor dies (15) disposed in a first row; a pick up program (38) for sequentially picking up the detected semiconductor dies (15); an estimated position calculation and storage program (37) for calculating estimated absolute positions of the semiconductor dies (15) in a second row based on the detected absolute positions of the semiconductor dies (15) in one row, and storing the estimated absolute positions in the memory (32); and a view field movement program (39) for moving a field of view of the camera, so that the estimated absolute position stored in the memory (32) sequentially comes the center of the field of view of the camera (22). With such a semiconductor manufacturing apparatus, it is possible to effectively prevent semiconductor dies from being left unpicked when pick-up of semiconductor dies is performed.

Figure 1