

## **A Positioning Device Having Ram Pressure Nozzles and A Method of Aligning a Substrate**

### Abstract

The invention relates to a positioning device for aligning a substrate (12)  
5 relative to a substantially flat surface (14), comprising a substrate receiving  
device (18) for receiving the substrate (12); at least three ram pressure nozzles  
(22) arranged on or around the substrate receiving device (18), each of the ram  
pressure nozzles (22) being oriented towards the substantially flat surface (14)  
and being connected to a pressure measuring device (24) for sensing the  
10 respective ram pressure thereof; at least two linear actuators (28) connected to  
the substrate receiving device (18) and each configured to move the substrate  
receiving device (18) relative to the substantially flat surface (14); and a control  
unit (34) which is configured and set up to preset travel paths of the linear  
actuators (28) as a function of the measured ram pressures. Furthermore, the  
15 invention relates to a method of aligning a substrate (12).

Figure 1