

**METHOD FOR MANUFACTURING A DOUGHNUT-SHAPED GLASS
SUBSTRATE**

ABSTRACT

A method for manufacturing a doughnut-shaped glass substrate by use of a glass substrate manufacturing apparatus, the glass substrate manufacturing apparatus comprising a work stage, three drilling machines and a conveying device capable of moving the work stage, comprising fixing a glass sheet on the work stage; moving the glass sheet to a position just above the core drill of the first drilling machine by use of the conveying device; partially drilling the glass sheet from downward by use of the core drill of the first drilling machine; moving the glass sheet to a position just under the core drill of the second drilling machine by use of the conveying device; forming the inner circular hole in the doughnut-shaped glass substrate by drilling the partially drilled portion from upward by use of the core drill of the second drilling machine; moving the glass sheet to a position just under the core drill of the third drilling machine by use of the conveying device; and separating the doughnut-shaped glass substrate from the glass sheet by drilling the glass sheet from upward by use of the core drill of the third drilling machine.

Figure 5