



US00D341541S

# United States Patent [19]

[11] Patent Number: **Des. 341,541**

Ichiyoshi

[45] Date of Patent: **\*\* Nov. 23, 1993**

- [54] **AUTOMATIC EYE-REFRACTION MEASURING APPARATUS WITH SPECTACLE LENS MEASURING APPARATUS**
- [75] Inventor: **Hiroyuki Ichiyoshi, Kawasaki, Japan**
- [73] Assignee: **Canon Kabushiki Kaisha, Tokyo, Japan**
- [\*\*] Term: **14 Years**
- [21] Appl. No.: **866,545**
- [22] Filed: **Apr. 10, 1992**

- [30] **Foreign Application Priority Data**
- Oct. 23, 1991 [JP] Japan ..... 3-32096
- [52] U.S. Cl. .... **D10/46; D24/172**
- [58] Field of Search ..... **D10/46; D24/172; 33/200; 356/125-137**

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- D. 297,645 9/1988 Nishimura ..... D16/130
- D. 316,144 4/1991 Nishimura ..... D24/17
- D. 320,077 9/1991 Koizumi ..... D24/172
- D. 325,782 4/1992 Elic ..... D24/172
- D. 327,024 6/1992 Elic ..... D24/172 X
- 4,571,842 2/1986 Ikezawa et al. .... 33/200

### OTHER PUBLICATIONS

Topcon; CL-2000; Feb. 1989; cover; applicant provided.  
 Topcon; CL-1500; Apr. 1986; cover; applicant provided.  
 Nikos; NL-30; cover; applicant provided.

*Primary Examiner*—Alan P. Douglas  
*Assistant Examiner*—Antoine D. Davis  
*Attorney, Agent, or Firm*—Fitzpatrick, Cella, Harper & Scinto

### [57] CLAIM

The ornamental design for an automatic eye-refraction measuring apparatus with spectacle lens measuring apparatus, as shown and described.

### DESCRIPTION

FIG. 1 is a front elevational view of an automatic eye-refraction measuring apparatus with spectacle lens measuring apparatus showing my new design; FIG. 2 is a rear elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a right side elevational view thereof; and, FIG. 7 is a perspective view thereof.

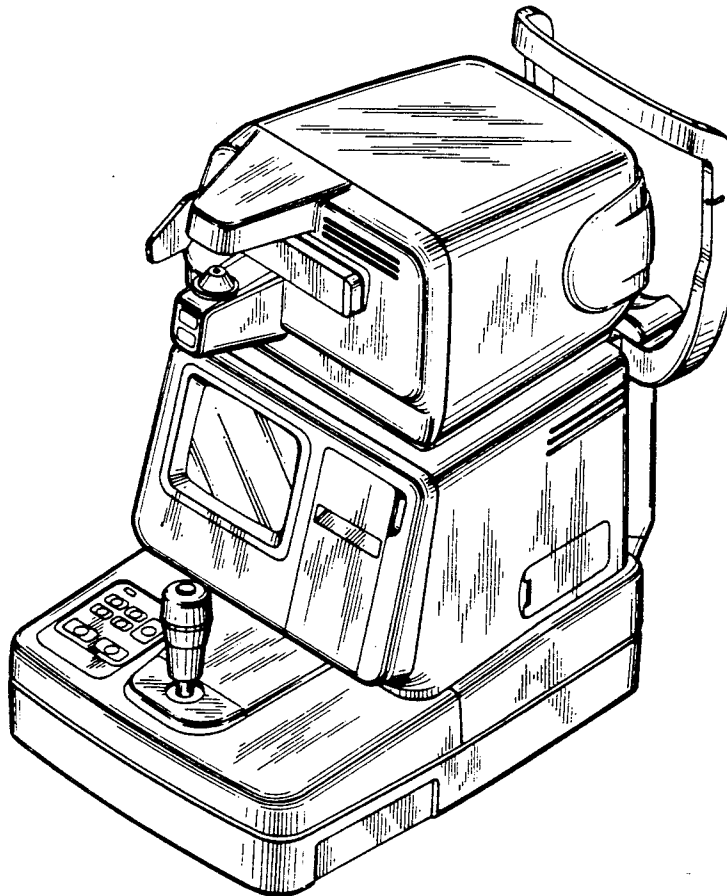


FIG. 2

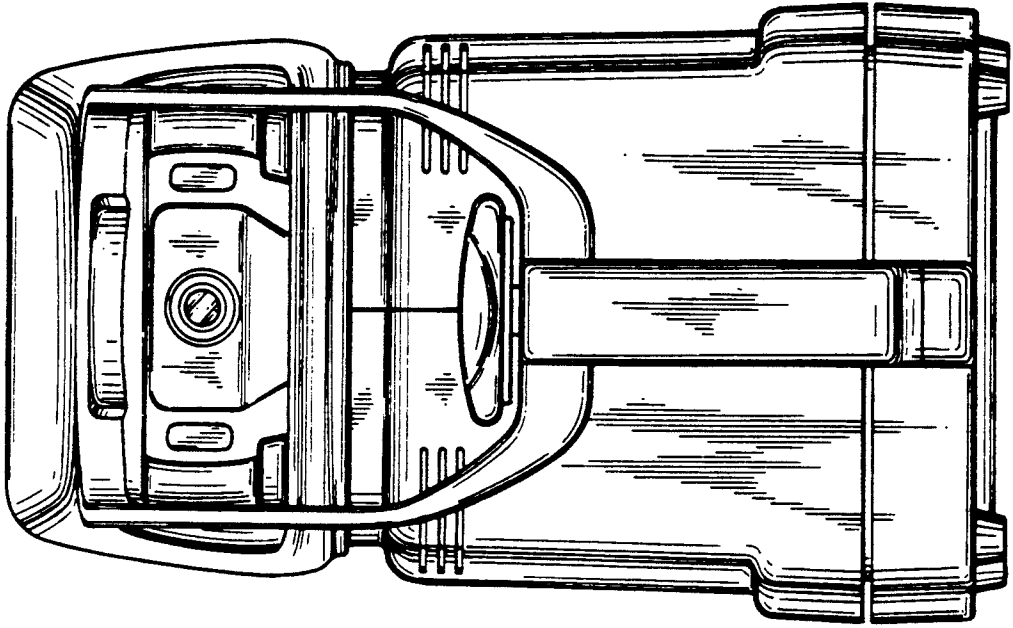


FIG. 1

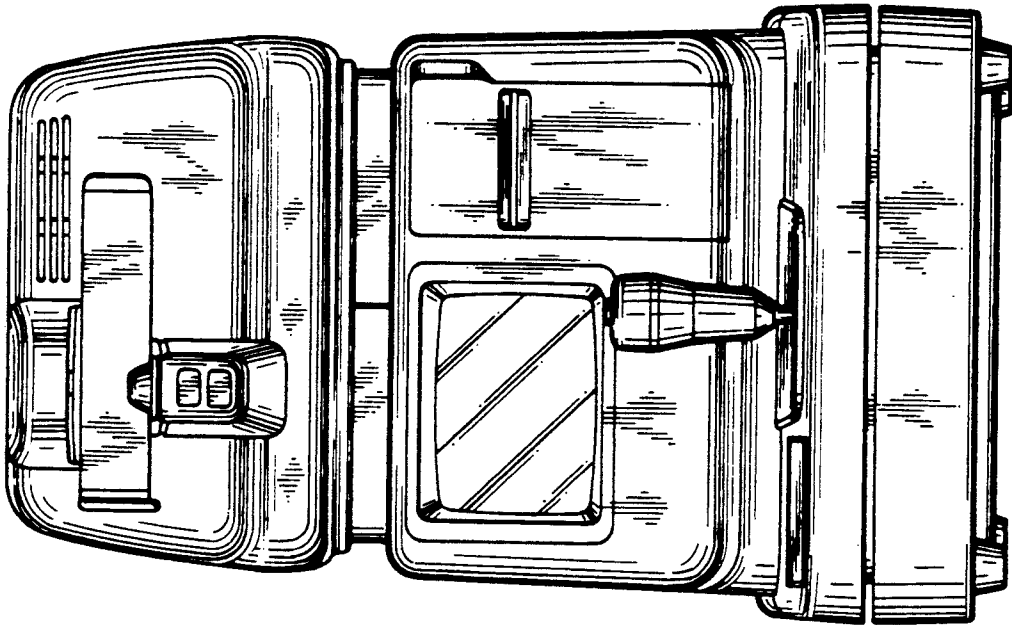


FIG. 4

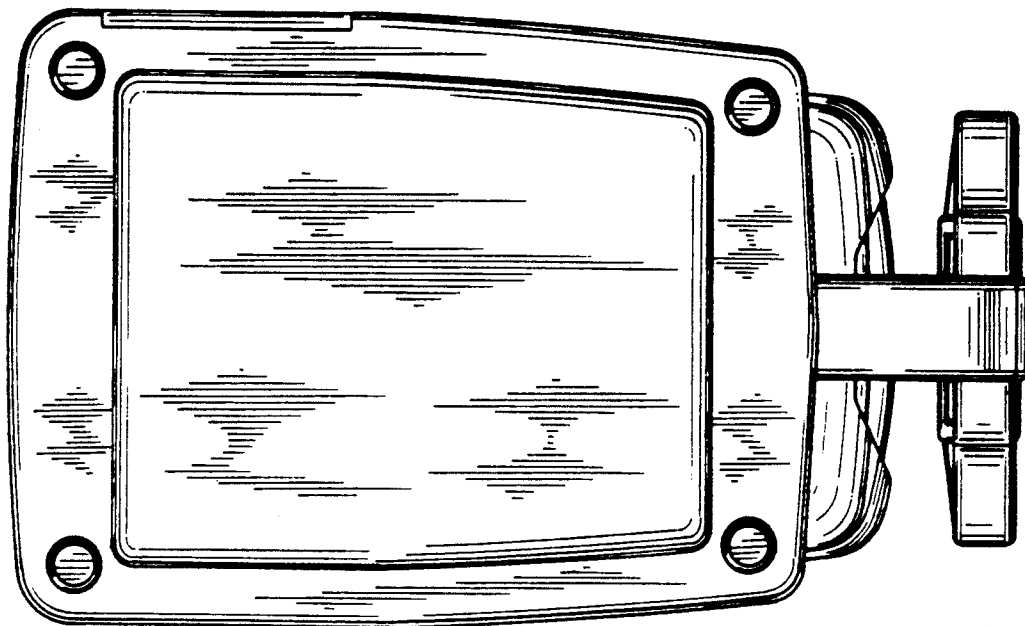


FIG. 3

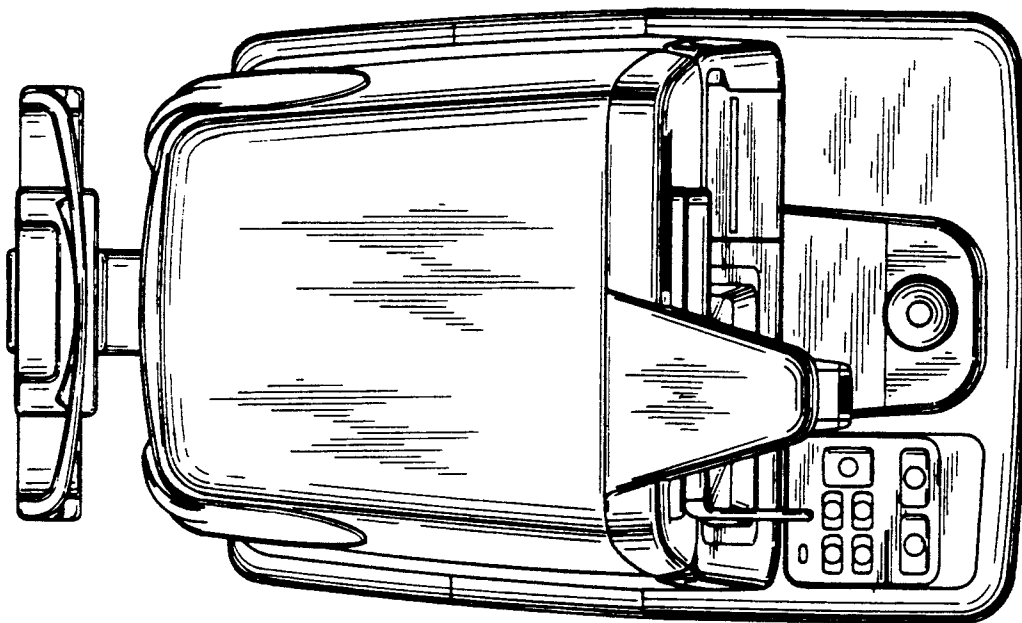


FIG. 5

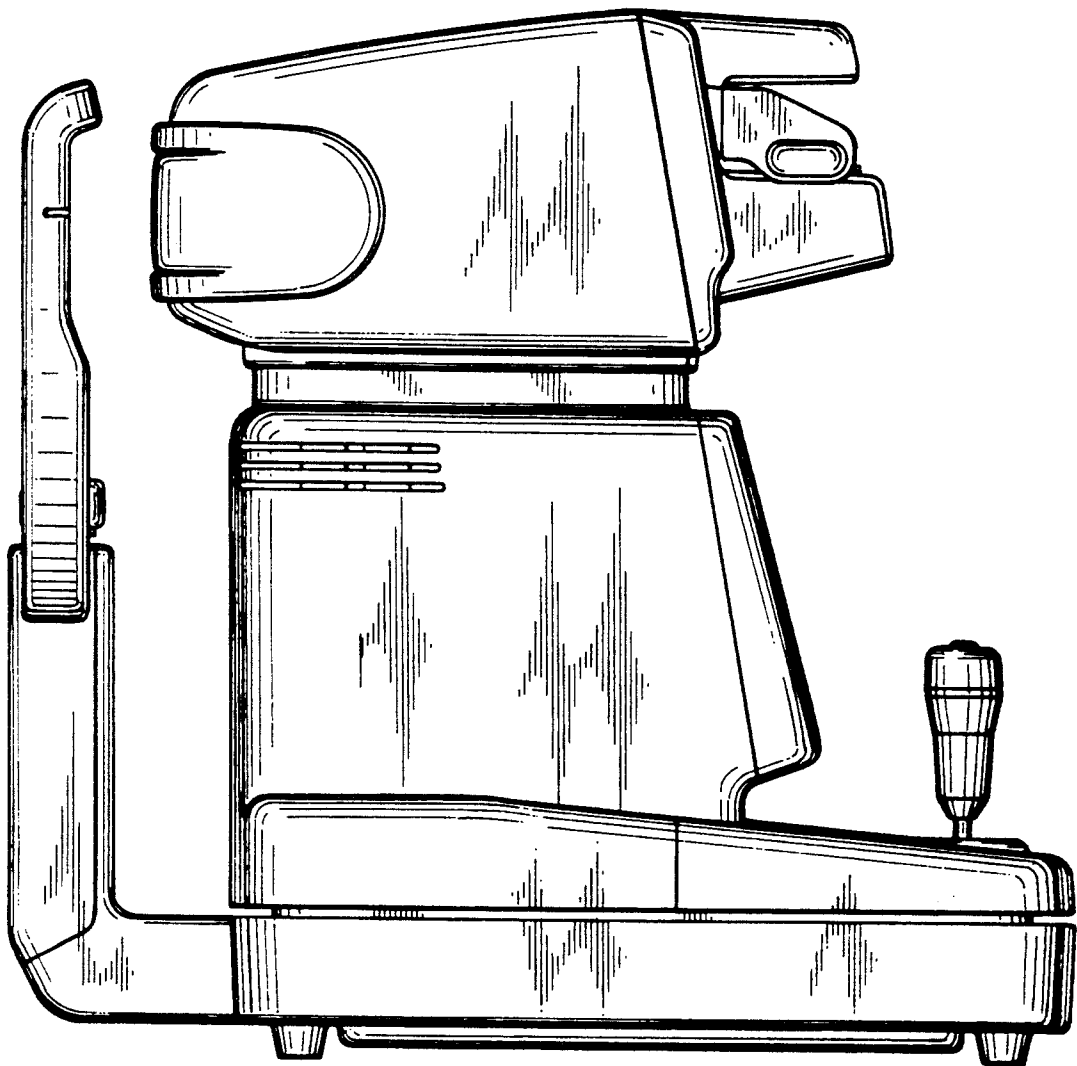


FIG. 6

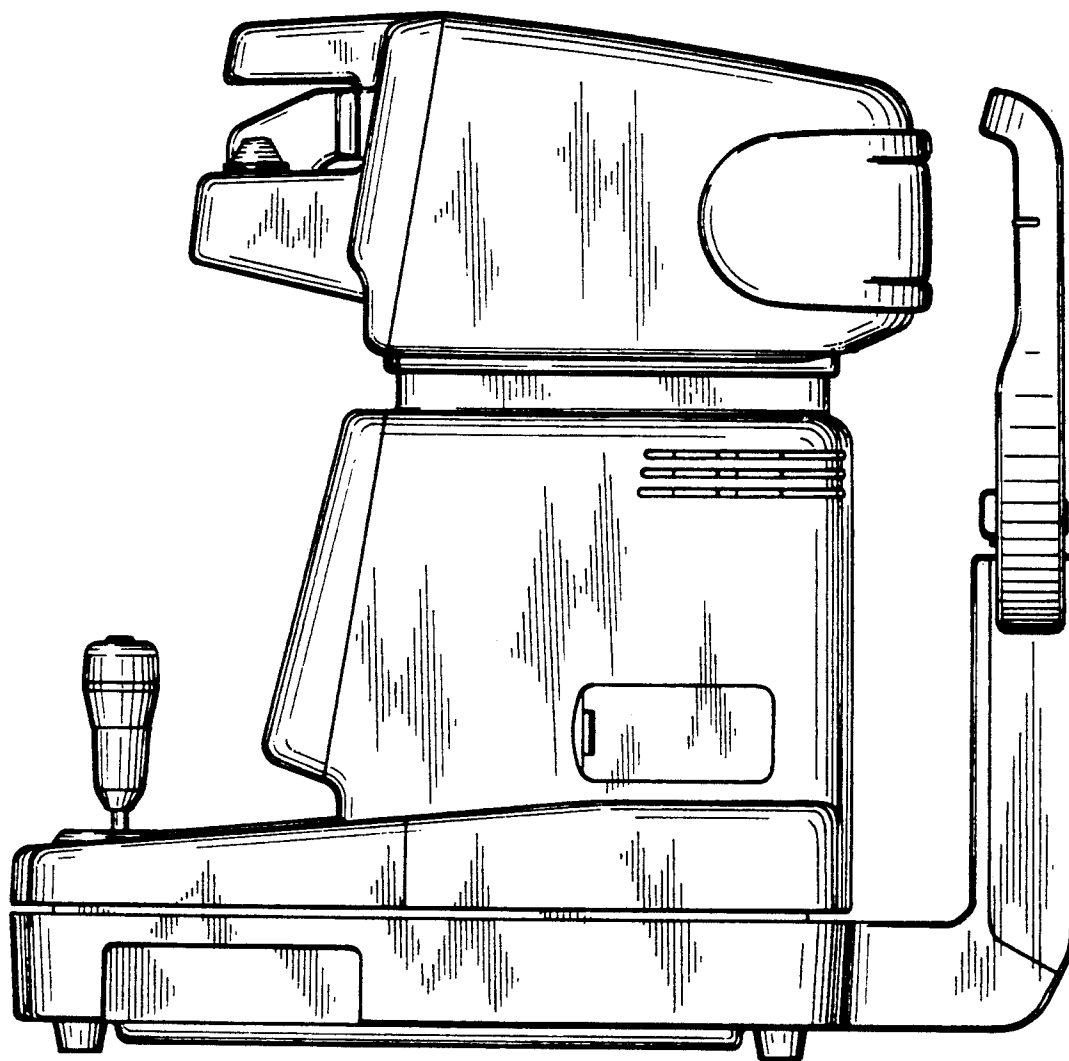


FIG. 7

