(54) Title: MULTIPLE LENS MOLDING SYSTEM AND METHOD

(57) Abstract: A method for forming a plurality of optical elements simultaneously includes placing a transfer material against an inner surface of a master die (53), which has a shape commensurate with a desired shape of a plurality of optical elements to form a molding die (54), which thereby has an inner surface substantially a negative of the master die’s inner surface (54). A moldable sheet, such as glass, is pressed against the molding die to form a unitary molded sheet (59), and the molded sheet is cut apart to form a plurality of optical elements (65), including lenses or other optical elements as desired.
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 1 April 2004

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C08H 23/03, 40/00; C08C 17/00, B29D 11/00, B29C 83/40
US CL : 65/24, 60.6, 106, 107; 264/1.21, 2.5, 2.7, 219, 220; 425/608

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 65/24, 60.5, 106, 107; 264/1.21, 2.5, 2.7, 219, 220; 425/608

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 5,436,764 A (UMETANI et al) 25 July 1995, see document generally.</td>
<td>1-46</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,695,069 A (MURATA et al) 12 October 1999, see document generally.</td>
<td>1-46</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,880,454 A (BENINGO) 14 November 1989, see document generally.</td>
<td>8; 10, 31-33</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,676,723 A (TANIGUCHI et al) 14 October 1997, see document generally.</td>
<td>10, 14, 33, 37</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,330,205 A (MURAKAMI et al) 18 May 1982, see document generally.</td>
<td>21-22, 44-45</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of actual completion of the international search: 19 NOVEMBER 2002

Date of mailing of the international search report: 13 FEB 2004

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231
Facsimile No. (703) 508-3880

Authorized officer

MICHAEL PHILIP OLOAIANNI

Telephone No. (703) 508-0651

Form PCT/ISA/210 (second sheet) (July 1998)*