

Abstract: Local data maps of an optical imaging system are stitched together into a composite global data map based on a merit function supporting closed-form processing. Overlapping regions of the local data maps are defined as difference maps that are given a parametric description. Corrective orientations of the local data maps are derived by collectively matching parametric descriptions of the corrective orientations for the overlapping local data maps to the parametric descriptions of the corresponding difference maps.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC:  G06K 9/36( 2006.01)
      G06K 9/32( 2006.01)

USPC: 382/284,294

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.: 382/284,294

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 practical, search terms used)
IEEE Xplore

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>X</td>
<td>US 5,528,290 (SAUND) 9 September 1994, cols. 3-4</td>
<td>1-5, 16-21, 25-29</td>
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<td></td>
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<td>6-15, 22-24, 35-36</td>
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</tbody>
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D. Further documents are listed in the continuation of Box C.

E. See patent family annex.

Date of the actual completion of the international search
U. March 2008 (1 1 03 2008)

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