Title: CONSTRAINT SYSTEMS AND METHODS FOR MANIPULATING NON-HIERARCHICAL OBJECTS

Abstract: Constraints are described, comprising specifying a first bidirectional constraint between a first object and a second object, and rendering one or more images based on the first bidirectional constraint.
Declarations under Rule 4.17:
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(H))
— as to the applicant’s entitlement to claim the priority of the earlier application (Rule 4.17(H))

Published:
— with international search report (Art. 21(3))

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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### INTERNATIONAL SEARCH REPORT

**International application No**
PCT/US2011/052315

#### A. CLASSIFICATION OF SUBJECT MATTER

Inventor: G06T13/00

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06T

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 date base and, where practicable, search terms used)
EPO-Internal, COMPENDEX, INSPEC, WPI Data

#### 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>
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Further documents listed in the continuation of Box C. [See patent family annex.]

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**Date of the actual completion of the international search**
19 November 2013

**Date of mailing of the international search report**
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