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- as to the applicant's entitlement to claim the priority of the  
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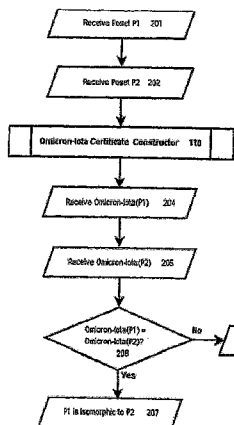


Fig. 2a

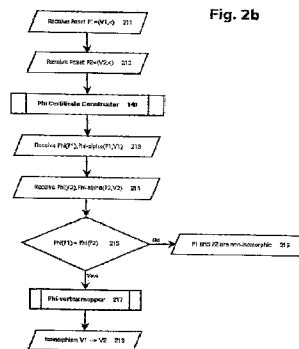


Fig. 2b

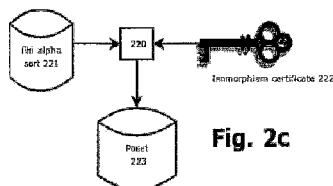


Fig. 2c

(57) Abstract: A method of for fast construction of poset isomorphism certificates is provided. First, receive poset P1 (201) as seen in Figure 2. Next, receive Poset P2 (202). Then, create the certificates using Omicron-Iota Certificate Constructor (110) and receive Omicron-Iota(pp1) (204) and P2 (205). Check to see if they are equal (206), if they are not, then P1 and P2 are non-Isomorphic (208) if they are, then P1 and P2 are Isomorphic (207).

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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Google, Google Scholar

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 poset partially (ordered or organized) set isomorphic isomorph rank symmetric

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	"Affine Isomorphism for Partially Ordered Sets" (Fill et al). 1999, Abstract and entire document discuss isomorphism of Partially ordered Sets.	1-2 ----- 8-9, 28
Y	"Rodica Simion and Shuffle Posets" Richard P. Stanley. 2002. Pg. 1-3	8-9 and 28
A	US 6587990 B1 (Andreev et al) July 1, 2003. C5-6 and C8	

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

* Special categories of cited documents:	
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"P" document published prior to the international filing date but later than the priority date claimed	

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