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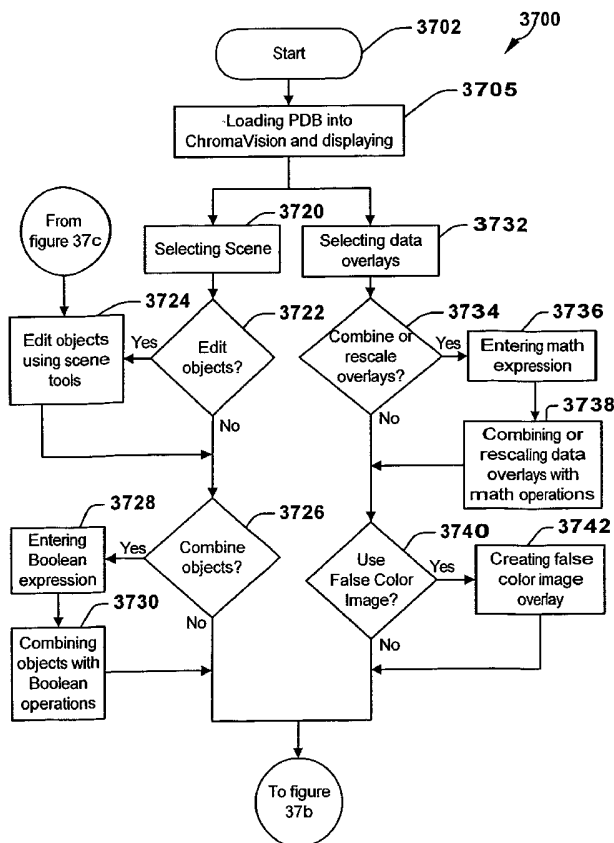
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(54) Title: METHOD, SYSTEM, AND APPARATUS FOR COLOR REPRESENTATION OF SEISMIC DATA AND ASSOCIATED MEASUREMENTS



(57) Abstract: The present invention is a method, system, and apparatus for visually displaying digitized information in a way that allows a human operator to detect easily patterns and characteristics within the data. A personal computer (3500) is used to extract raw data and to perform Boolean operations (3822) at the behest of a user. The manipulated information is then converted into a false-color image (3742) and displayed on an output screen. The images can be compared to known data, called a template, in order to detect one or more desired patterns that indicate desirable features. The desired pattern can then be highlighted (or illuminated) and be displayed to the operator so that the location of the desired feature may be identified.

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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), 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, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,015,366 A (HALL, III) 05 April 1977 (05.04.1977), column 2, lines 1-67.	1-99
A	US 6,018,587 A (CABIB) 25 January 2000 (25.01.2000), column 2, lines 1-60.	1-99
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		Authorized officer <i>JM</i> Anil Khatri <i>James R. Matthews</i> Telephone No. (703) 305-3900