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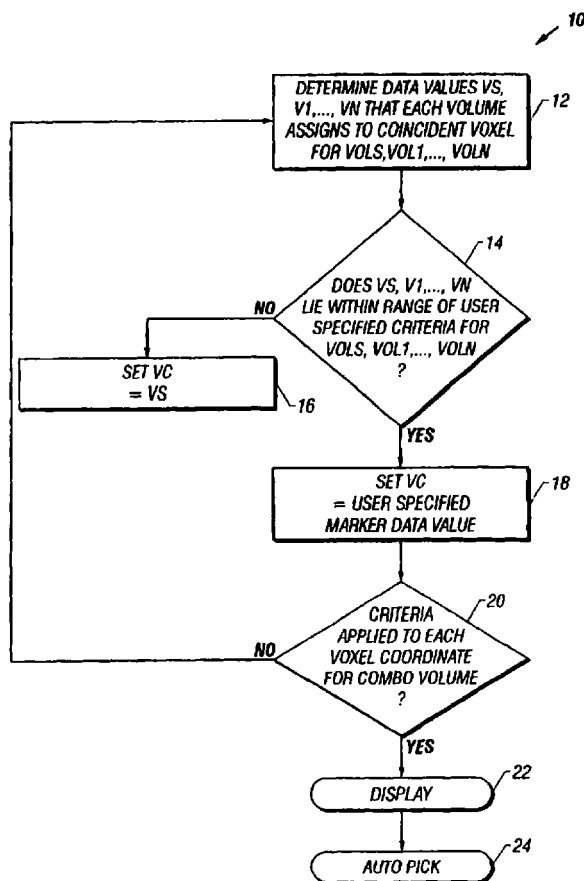
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(54) Title: SYSTEM AND METHOD FOR ANALYZING AND IMAGING AN ENHANCED THREE-DIMENSIONAL VOLUME DATA SET USING ONE OR MORE ATTRIBUTES



(57) Abstract: A method (10) and system are disclosed for creating a combination attribute volume or combo volume by combining one or more attribute volumes (12) into a single volume. For instance, seismic data volumes may be used for creating a combination seismic attribute volume from multiple seismic attribute volumes. This is accomplished by replacing certain of the standard 8-bit data values (12) in a seismic data volume with marker values (18) that denote certain other values of other, spatially coincident, seismic attribute data. The resulting combo volume may then be displayed (22) and a seed pick positioned on an event of interest such as a geological body. An auto-picker (24) function or program will then find all the connecting points which will quickly further define the event. The event may then be displayed and interpreted.



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