

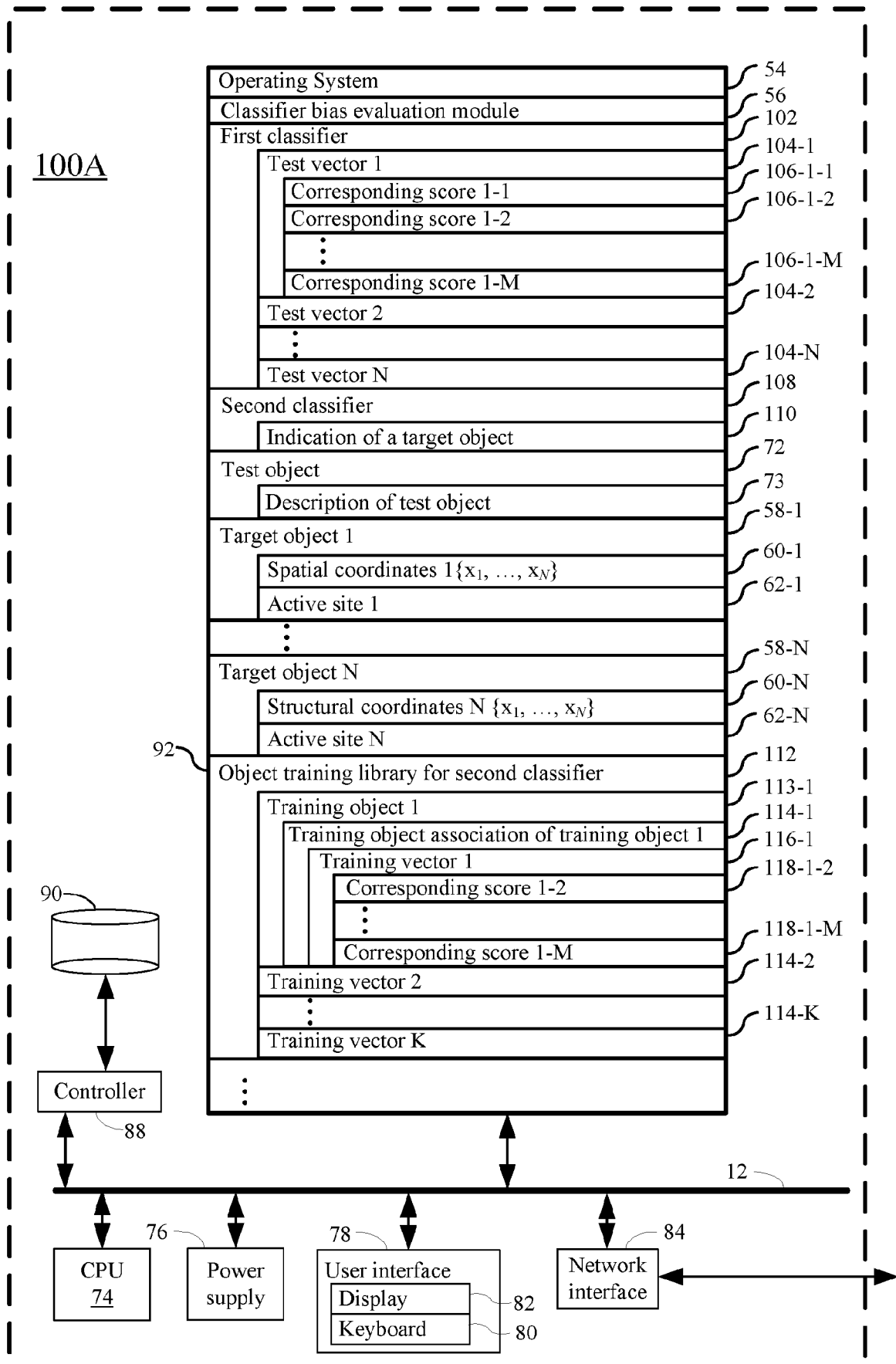


Fig. 1A

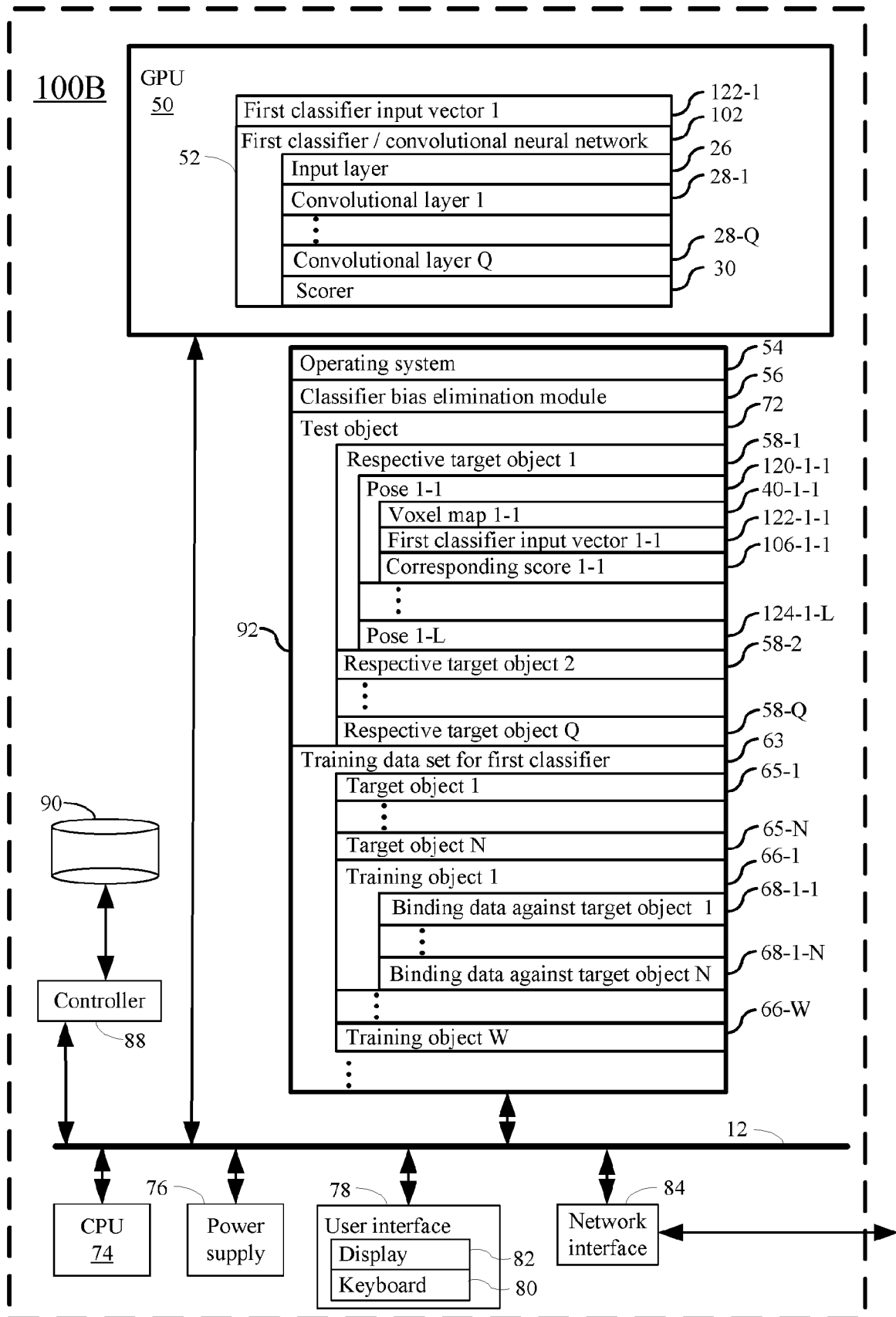


Fig. 1B

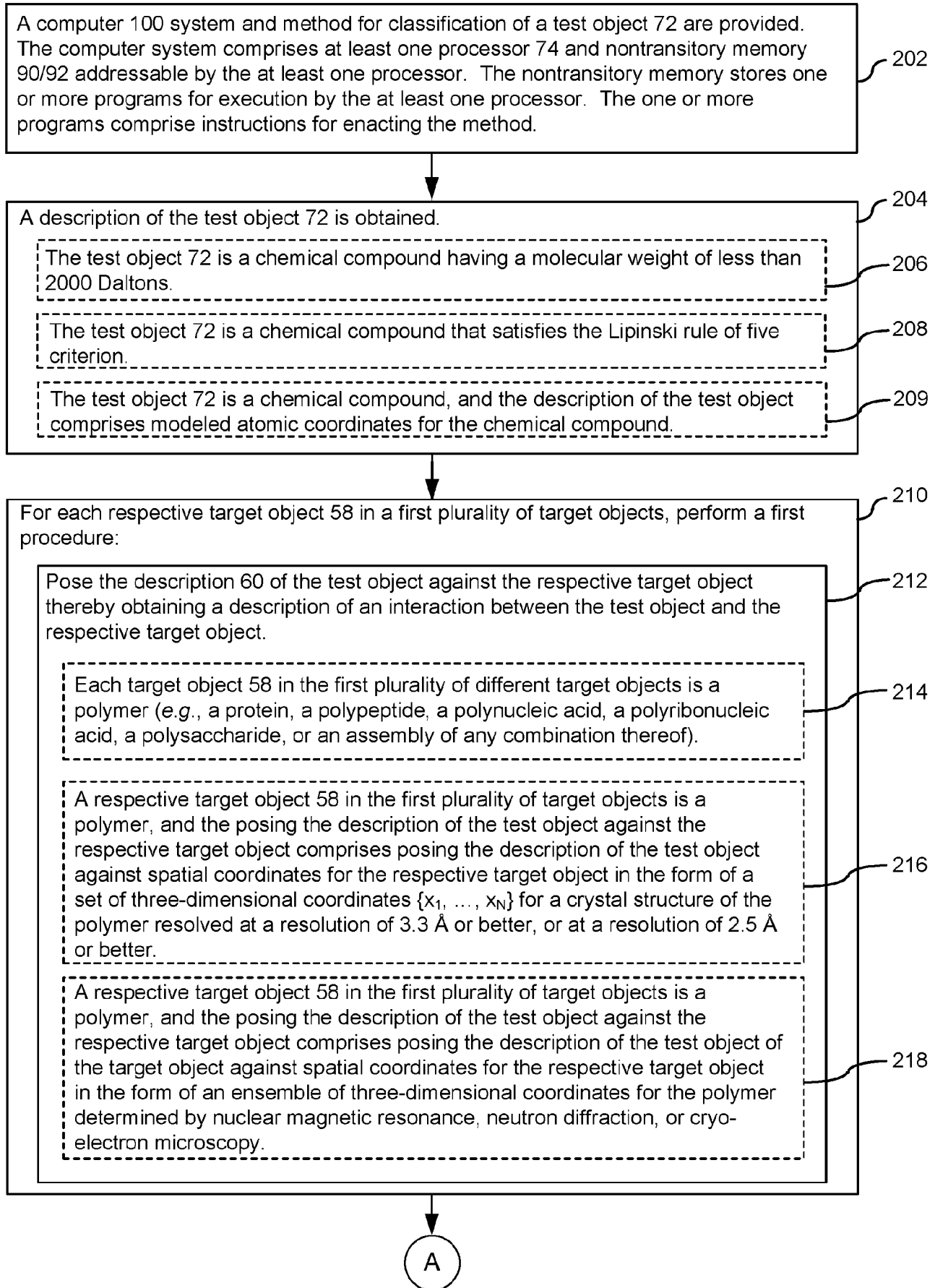


Fig. 2A

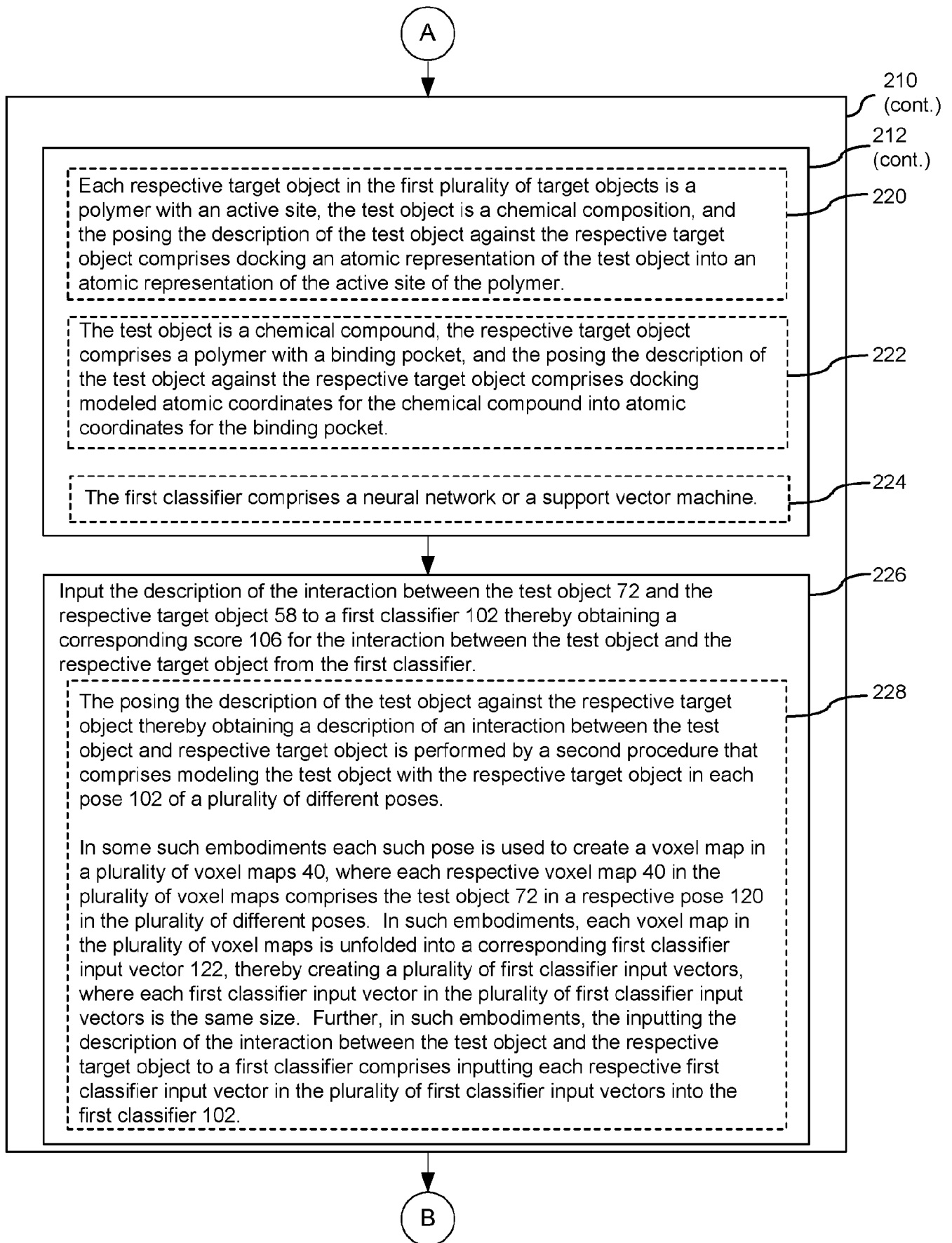
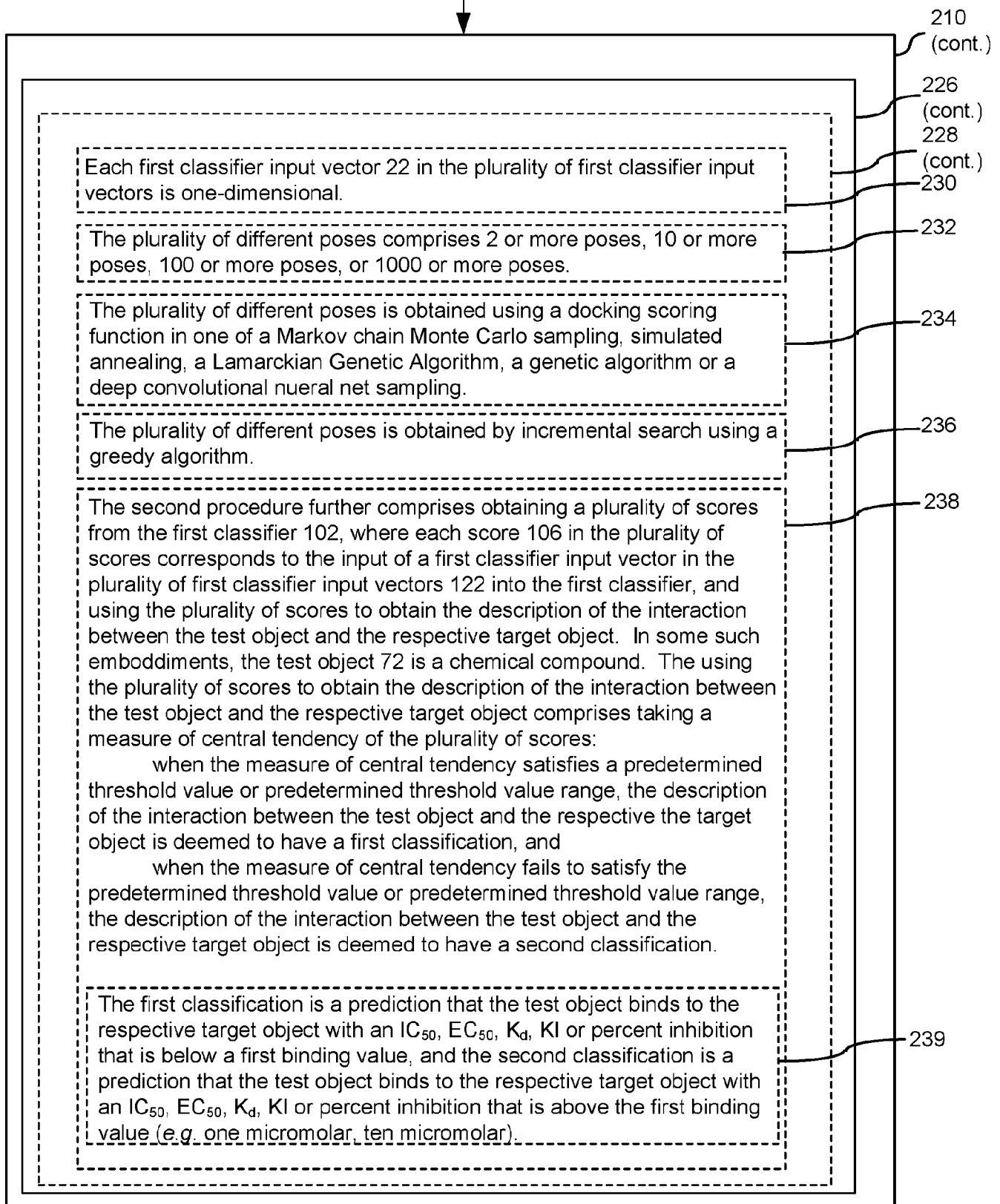


Fig. 2B

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B



C

Fig. 2C

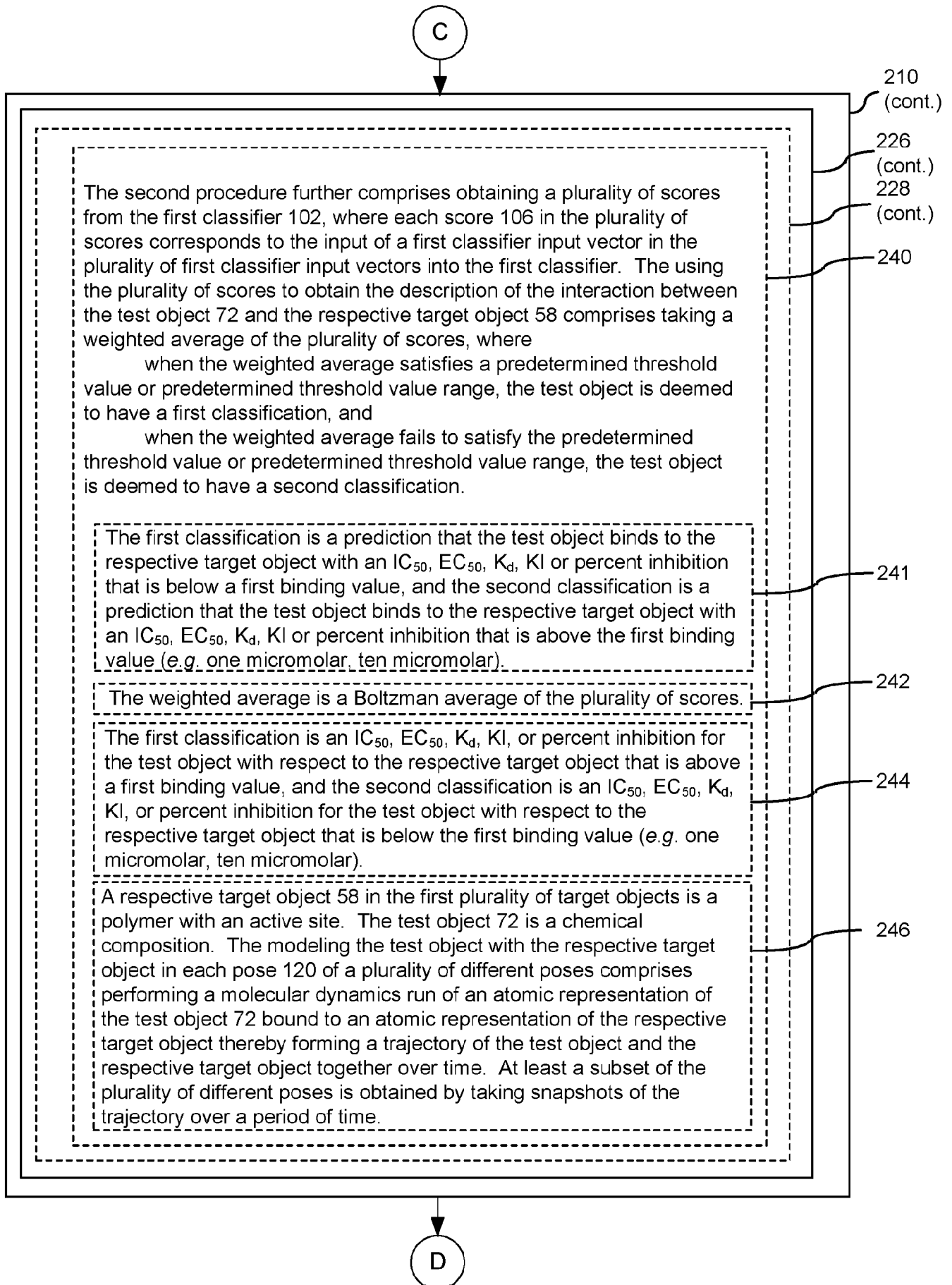


Fig. 2D

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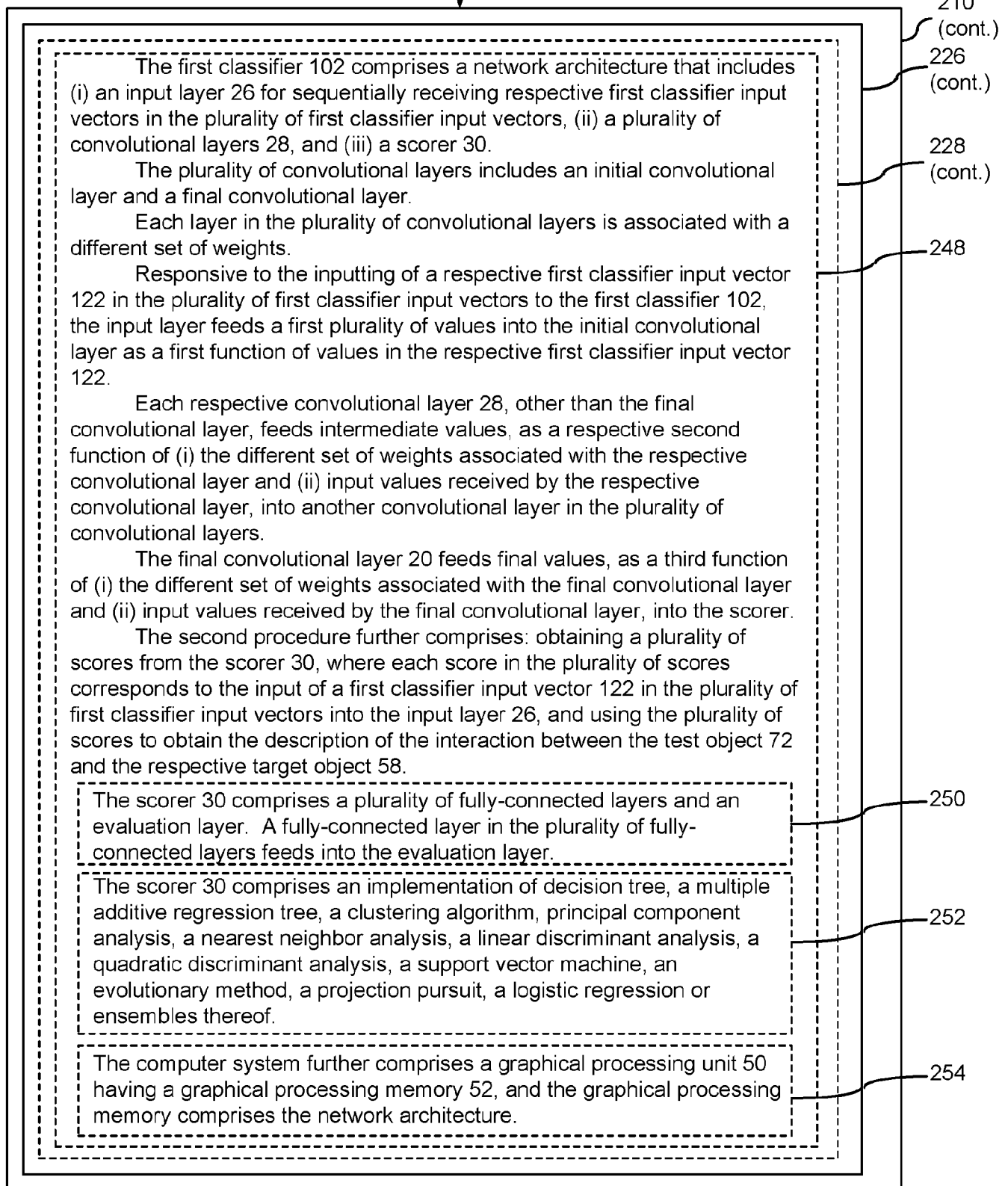


Fig. 2E

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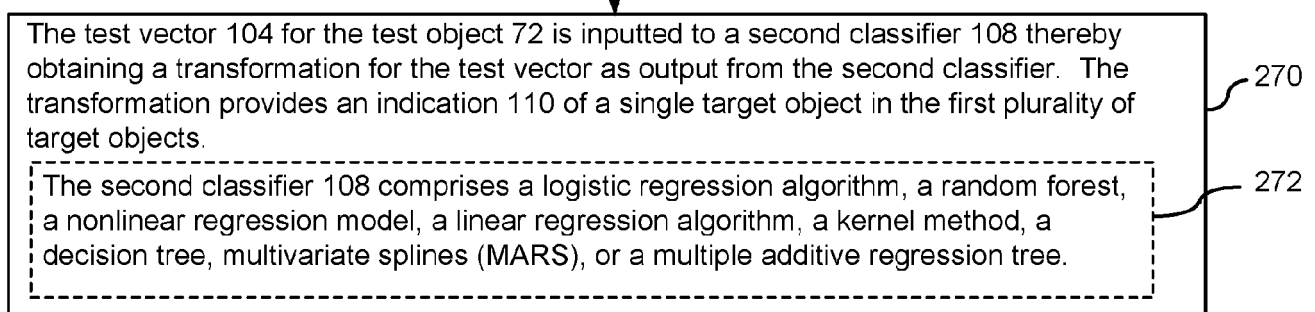
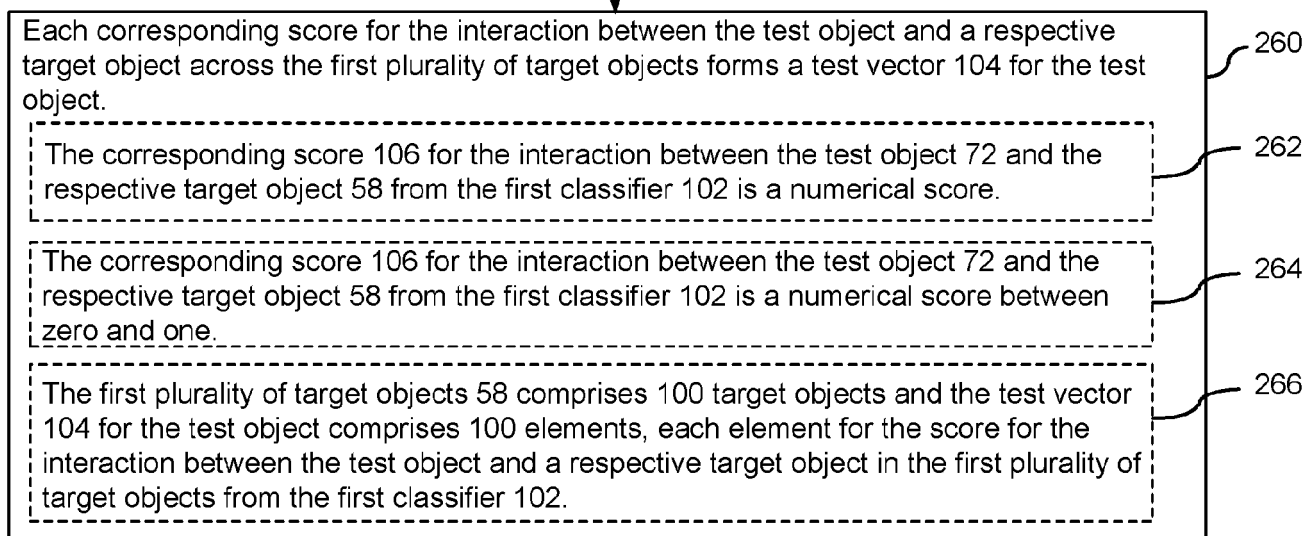
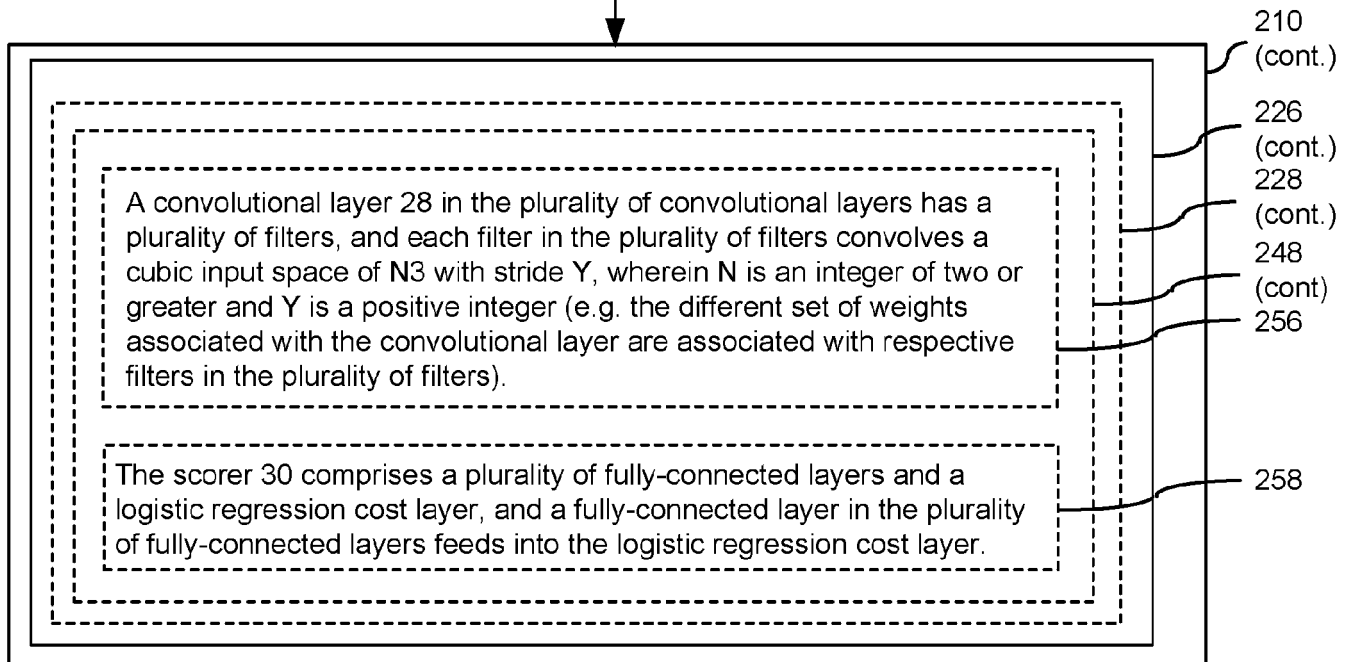


Fig. 2F

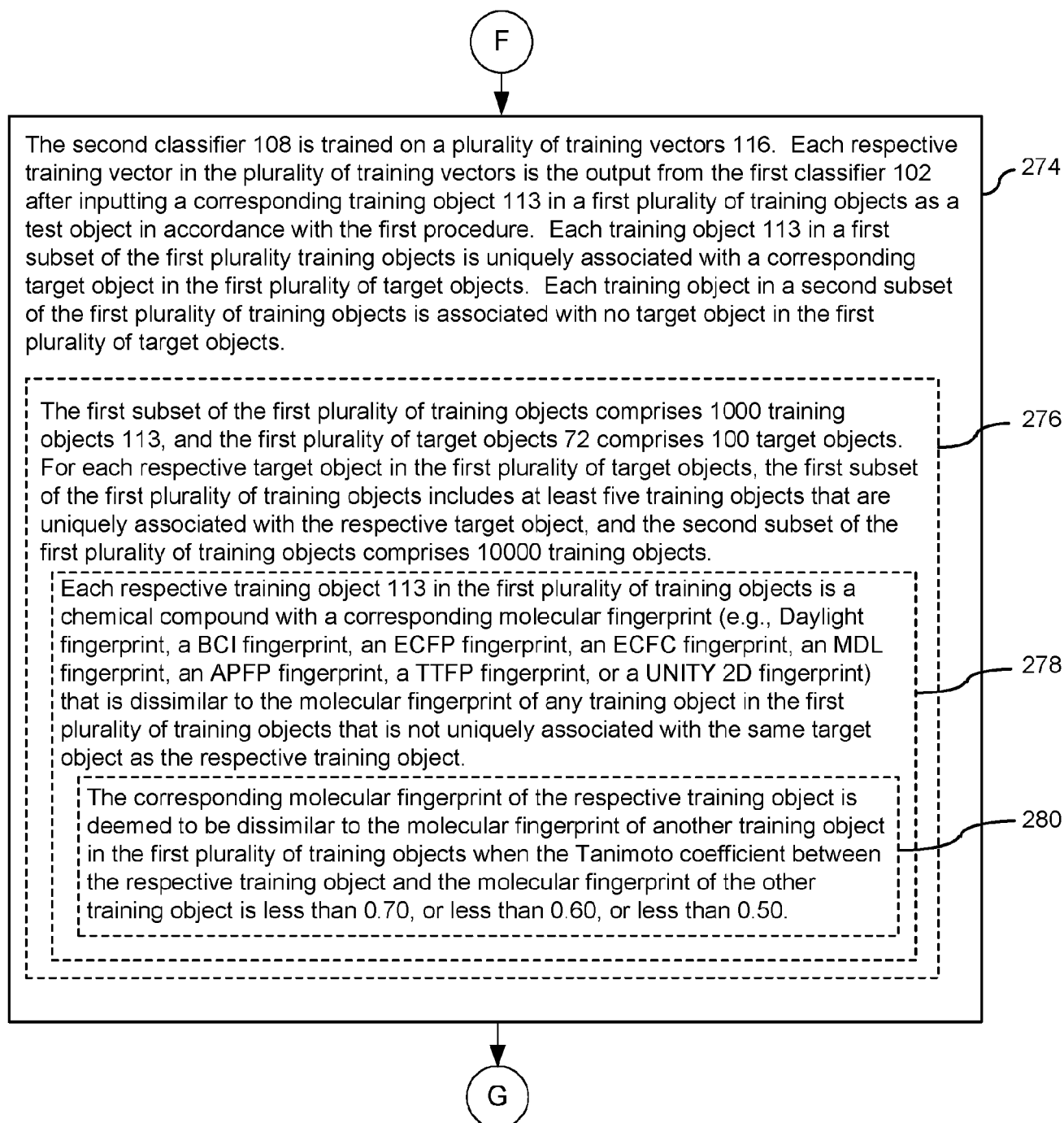


Fig. 2G

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274
(cont.)

The first classifier 102 comprises a plurality of weights. Prior to the obtaining 204, a training data set 63 is acquired that comprises: a second plurality of training objects 66, a second plurality of target objects 65, and a plurality of experimentally determined scores 68, where each respective experimentally determined score in the plurality of experimentally determined scores is for the interaction between a corresponding training object 66 in the second plurality of training objects and a corresponding target object 65 in the second plurality of target objects. For each respective training object 66 in the second plurality of training objects, a second procedure is performed that comprises: (i) posing a description of the respective training object 66 against a corresponding target object 65 in the second plurality of target objects thereby obtaining a description of an interaction between the training object and the corresponding target object, (ii) inputting the description of the interaction between the respective training object and the corresponding target object to the first classifier 102 thereby obtaining a corresponding score 106 for the interaction between the training object 66 and the corresponding target object 65 from the first classifier 102, (iii) determining a differential between (1) the corresponding score 106 from the first classifier 102 for the description of the interaction between the respective training object 66 and the corresponding target object 65 and (2) the experimentally determined score 68 for the interaction between the respective training object 66 and the corresponding target object 65 from the training data set 63, and (iv) applying the differential to the plurality of weights.

282

The second plurality of target objects is the same as the first plurality of target objects.

284

There is only partial overlap between the second plurality of target objects and the first plurality of target objects.

286

There is no overlap between the second plurality of target objects and the first plurality of target objects.

288

The first plurality of target objects is a subset of the second plurality of target objects.

290

The second plurality of target objects is 50 or more target objects, 100 or more target objects, 250 or more target objects.

292

The second plurality of target objects is 250 or more target objects.

294

The first plurality of training objects is the same as the second plurality of training objects.

296

The first plurality of training objects is different than the second plurality of training objects.

298

Fig. 2H

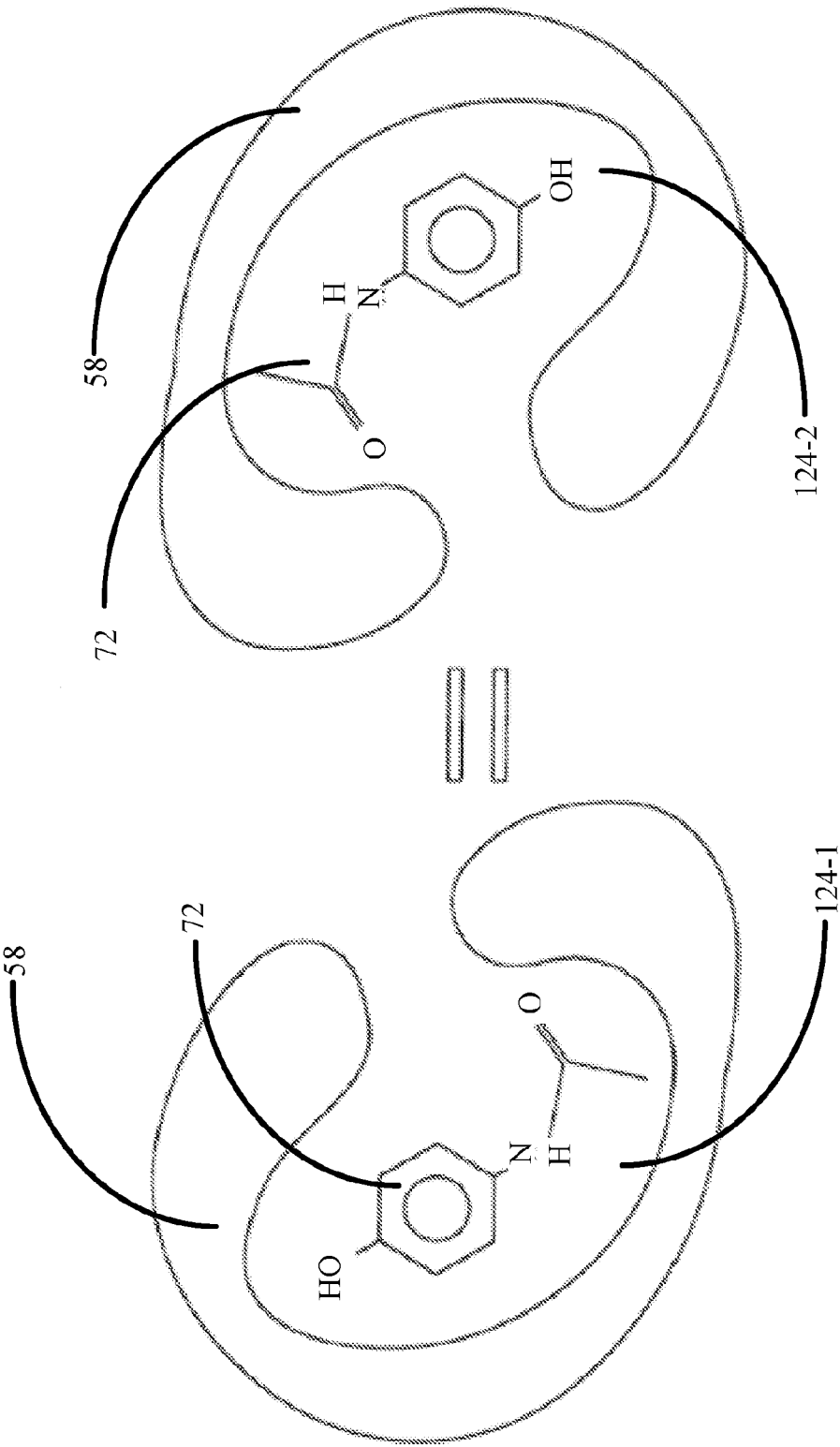


Fig. 3

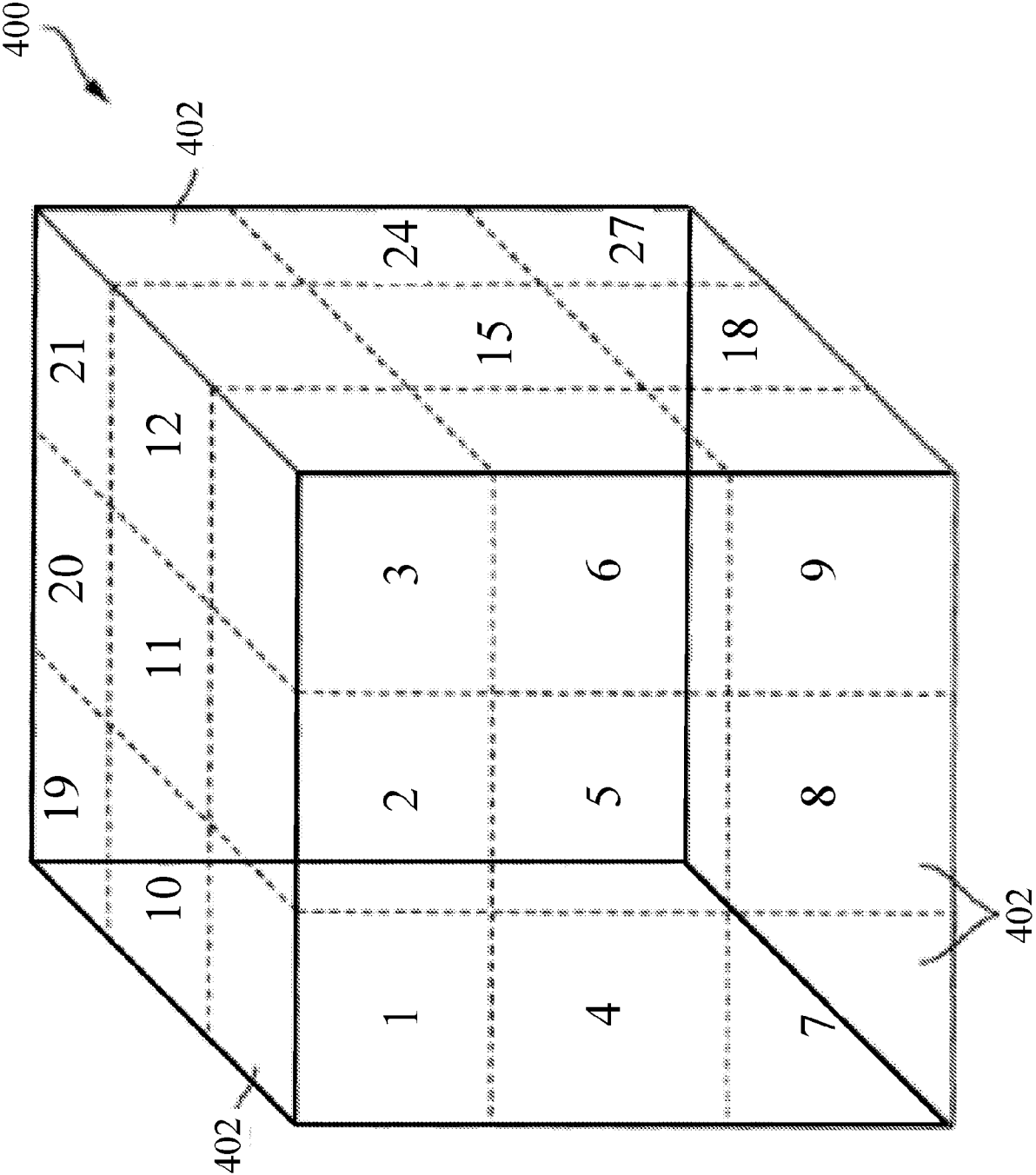


Fig. 4

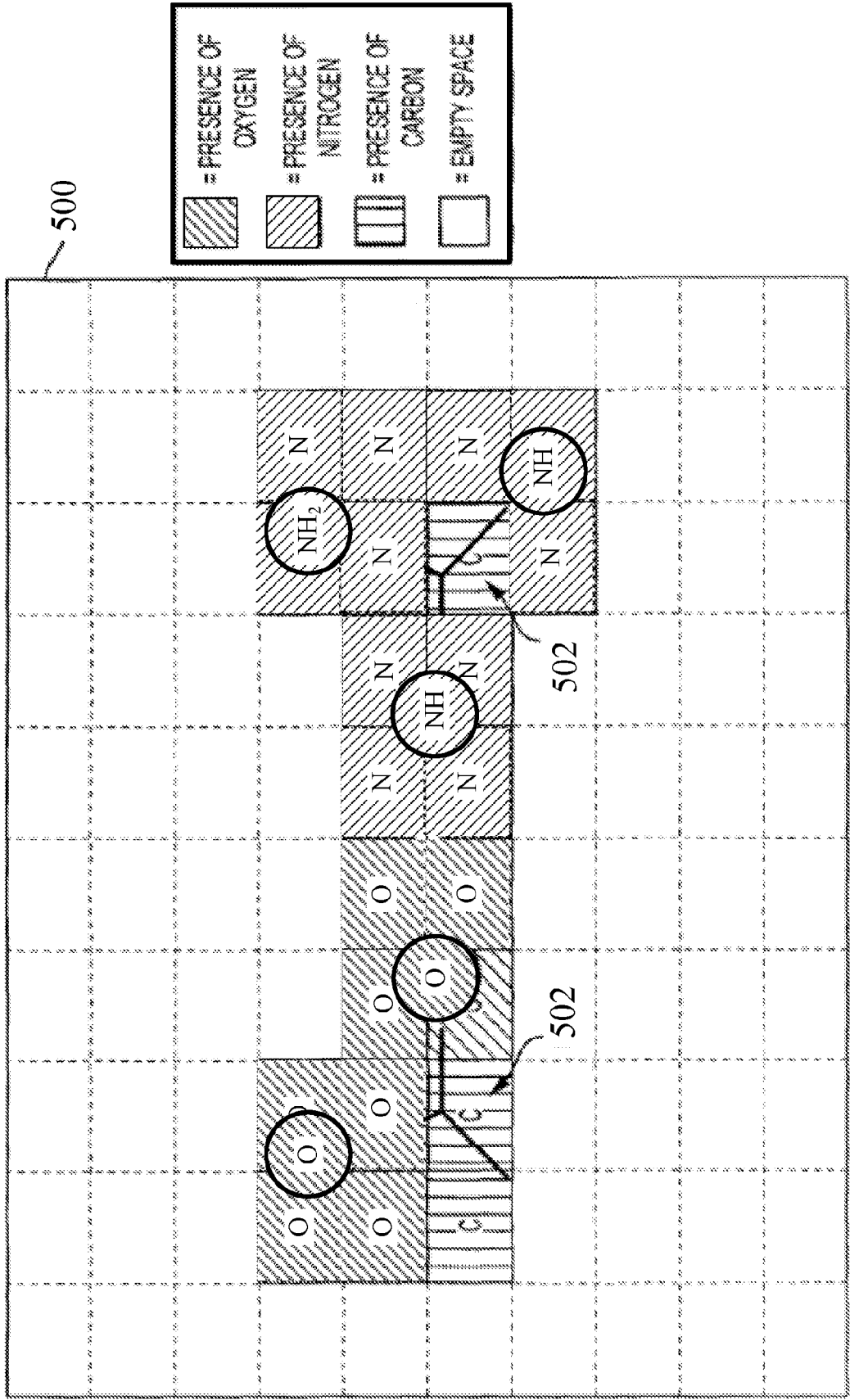


Fig. 5

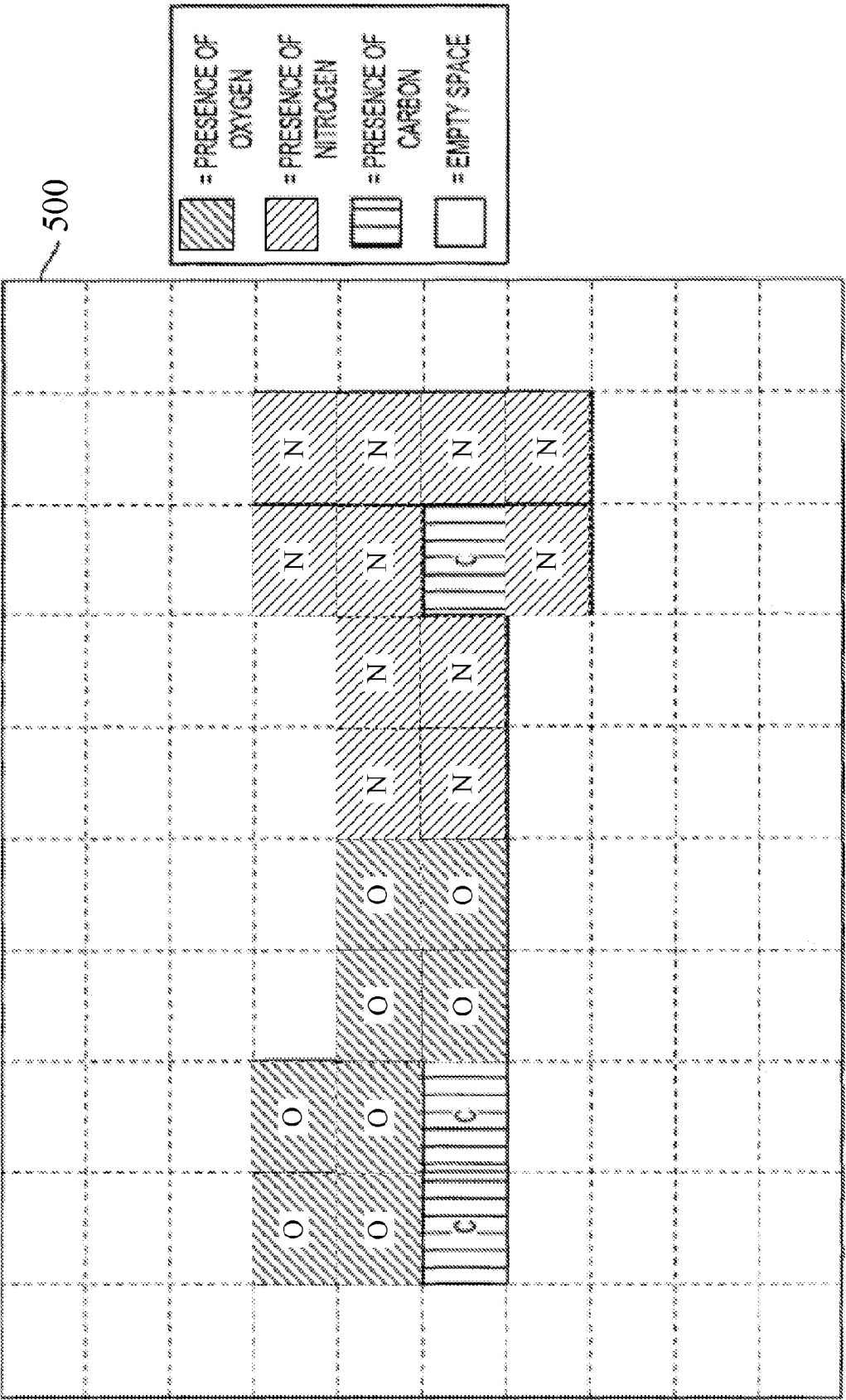


Fig. 6

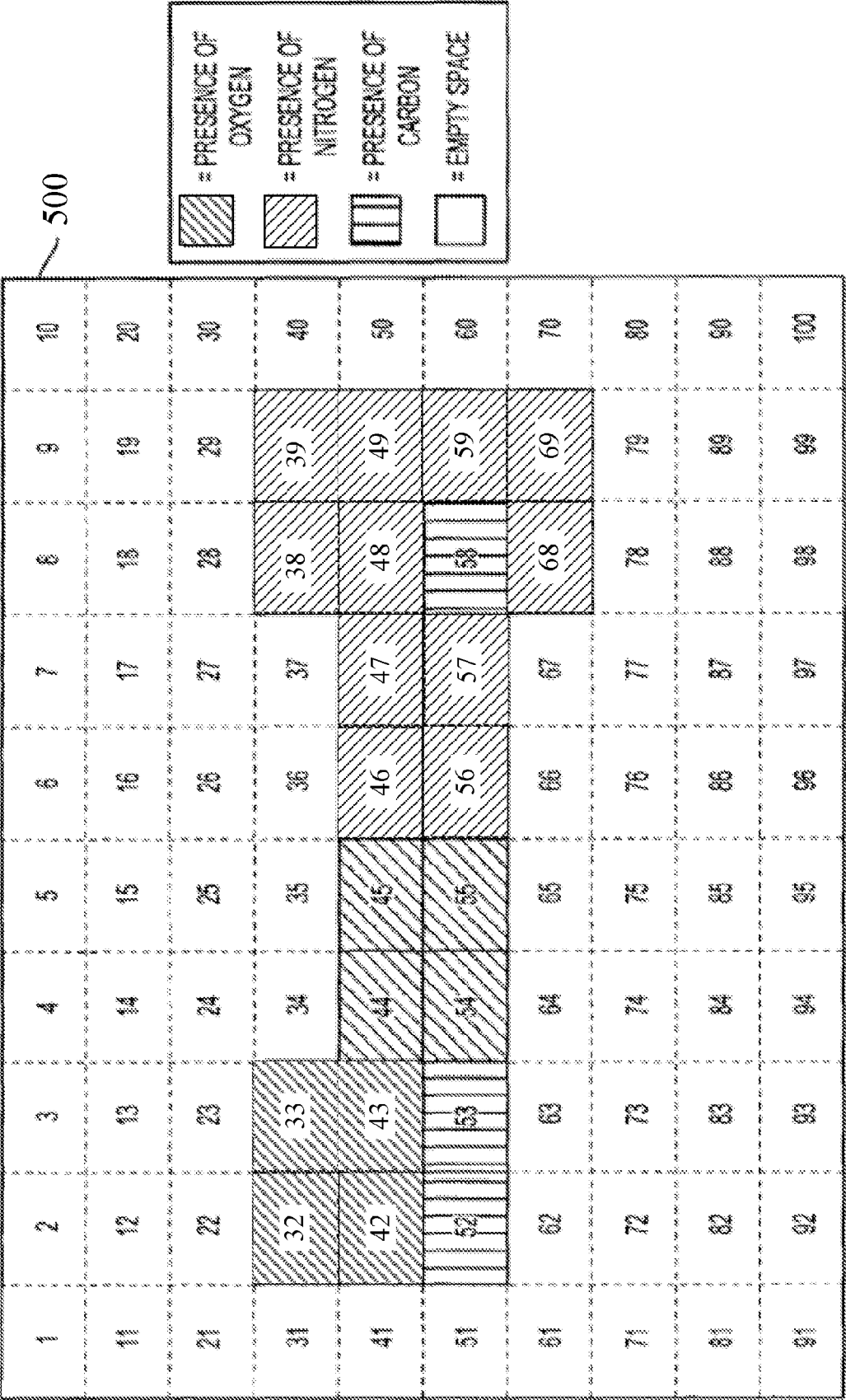


Fig. 7

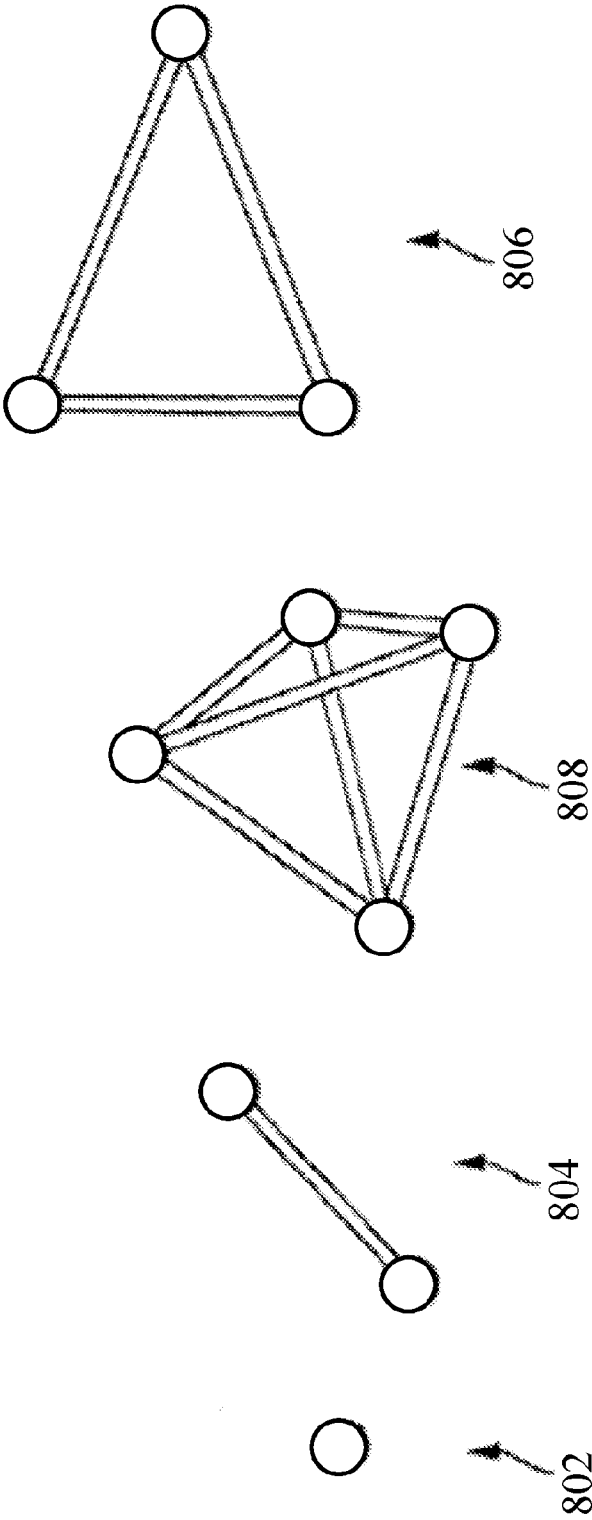


Fig. 8

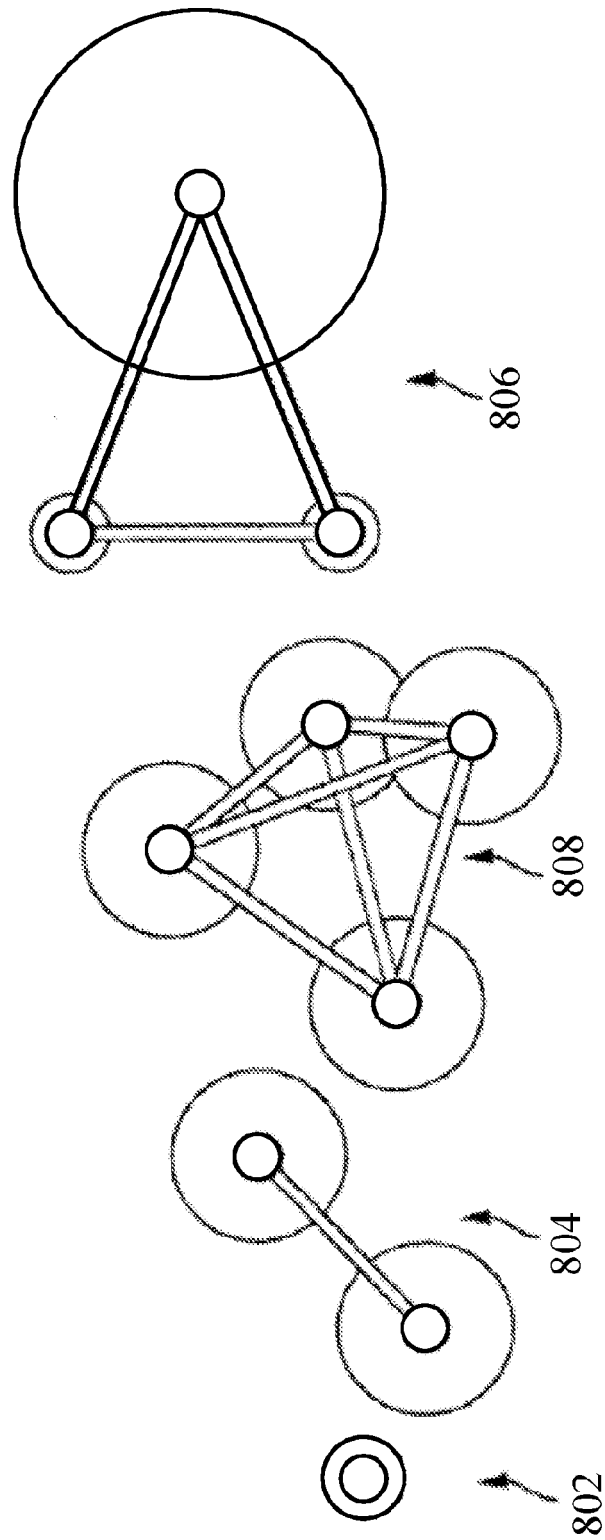


Fig. 9

$$f(\overrightarrow{x_1}, \overrightarrow{x_2}, \dots, \overrightarrow{x_{100}}) = g(g_0(\overrightarrow{x_1}, \overrightarrow{x_2}, \dots, \overrightarrow{x_{100}}), g_1(\overrightarrow{x_1}, \overrightarrow{x_2}, \dots, \overrightarrow{x_{100}}), \dots, g_n(\overrightarrow{x_1}, \overrightarrow{x_2}, \dots, \overrightarrow{x_{100}}))$$
$$\overrightarrow{x_1} = (x_1^1, x_1^2, \dots, x_1^{40})$$
$$\overrightarrow{x_2} = (x_2^1, x_2^2, \dots, x_2^{40})$$

Fig. 10