

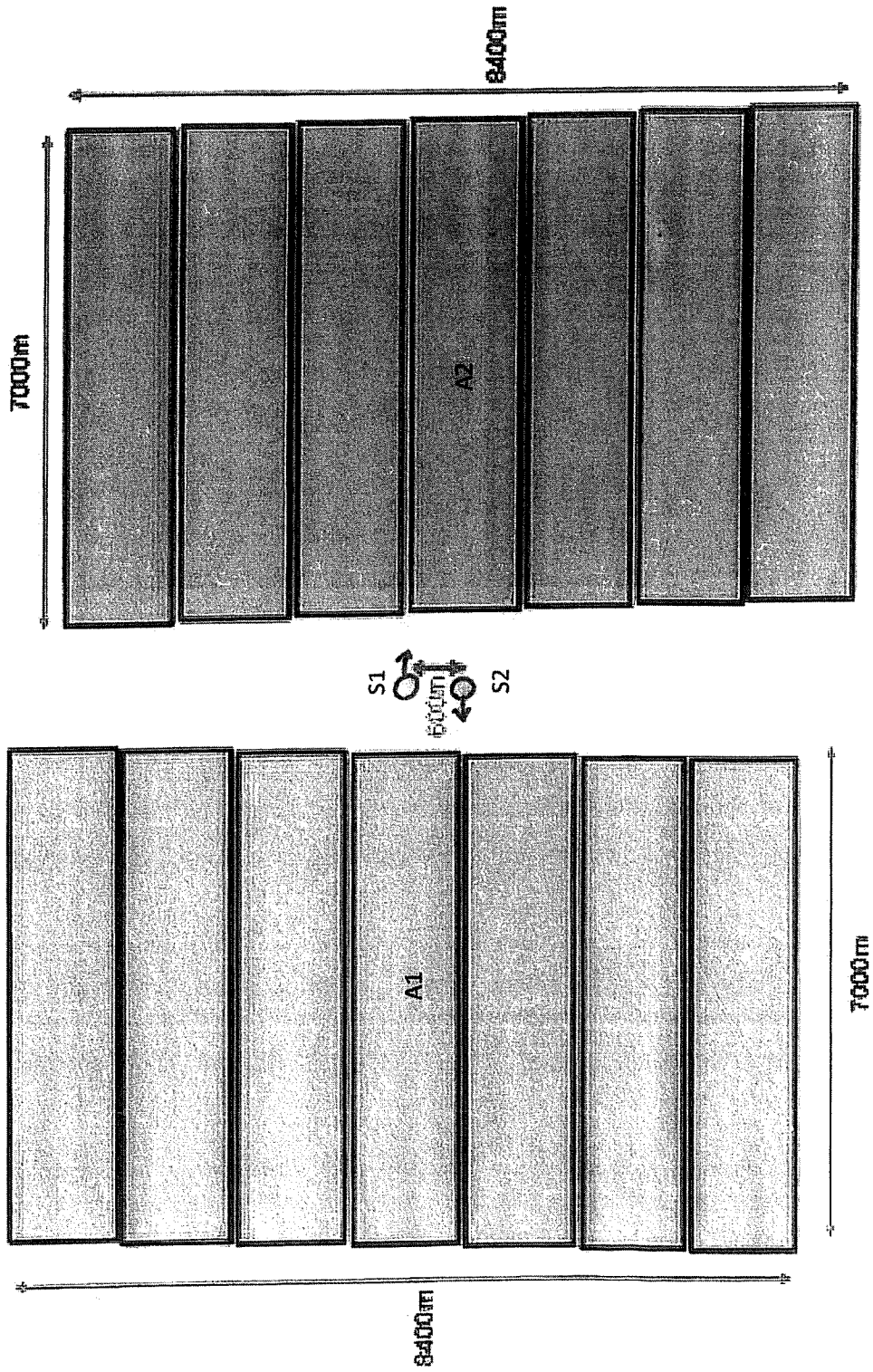


FIG. 1

Image (subsurface offset) gathers from using cross correlation imaging condition :

$$\text{Image}_{ss_offset}(\bar{x}, \bar{h}) = \sum_{\omega} U(\bar{x}, \omega, \bar{x} + \bar{h}) * D^*(\bar{x}, \omega, \bar{x} - \bar{h}) \quad (1.1)$$

$$\text{Image}_{ss_offset}(\bar{x}, \bar{h}) = \sum_t U(\bar{x}, t, \bar{x} + \bar{h}) * D(\bar{x}, t, \bar{x} - \bar{h}) \quad (1.2)$$

Image (subsurface offset) gathers from using deconvolution imaging condition :

$$\text{Image}_{ss_offset}(\bar{x}, \bar{h}) = \sum_{\omega} \frac{U(\bar{x}, \omega, \bar{x} + \bar{h}) * D^*(\bar{x}, \omega, \bar{x} - \bar{h})}{D(\bar{x}, \omega, \bar{x} - \bar{h}) * D^*(\bar{x}, \omega, \bar{x} - \bar{h})} \quad (1.3)$$

Image gathers from subsurface offset domain to angle domain :

$$\text{Image}_{ss_offset}(\bar{x}, \bar{h}) \quad \underline{\text{subsurface offset to angle}} \quad \text{Image}_{angle}(\bar{x}, \phi, \varphi) \quad (2)$$

$\bar{x} = (x, y, z)$ is the subsurface coordinate

$\bar{h} = (h_x, h_y, h_z)$ is the half source-receiver offset for generating image gathers

FIG. 2

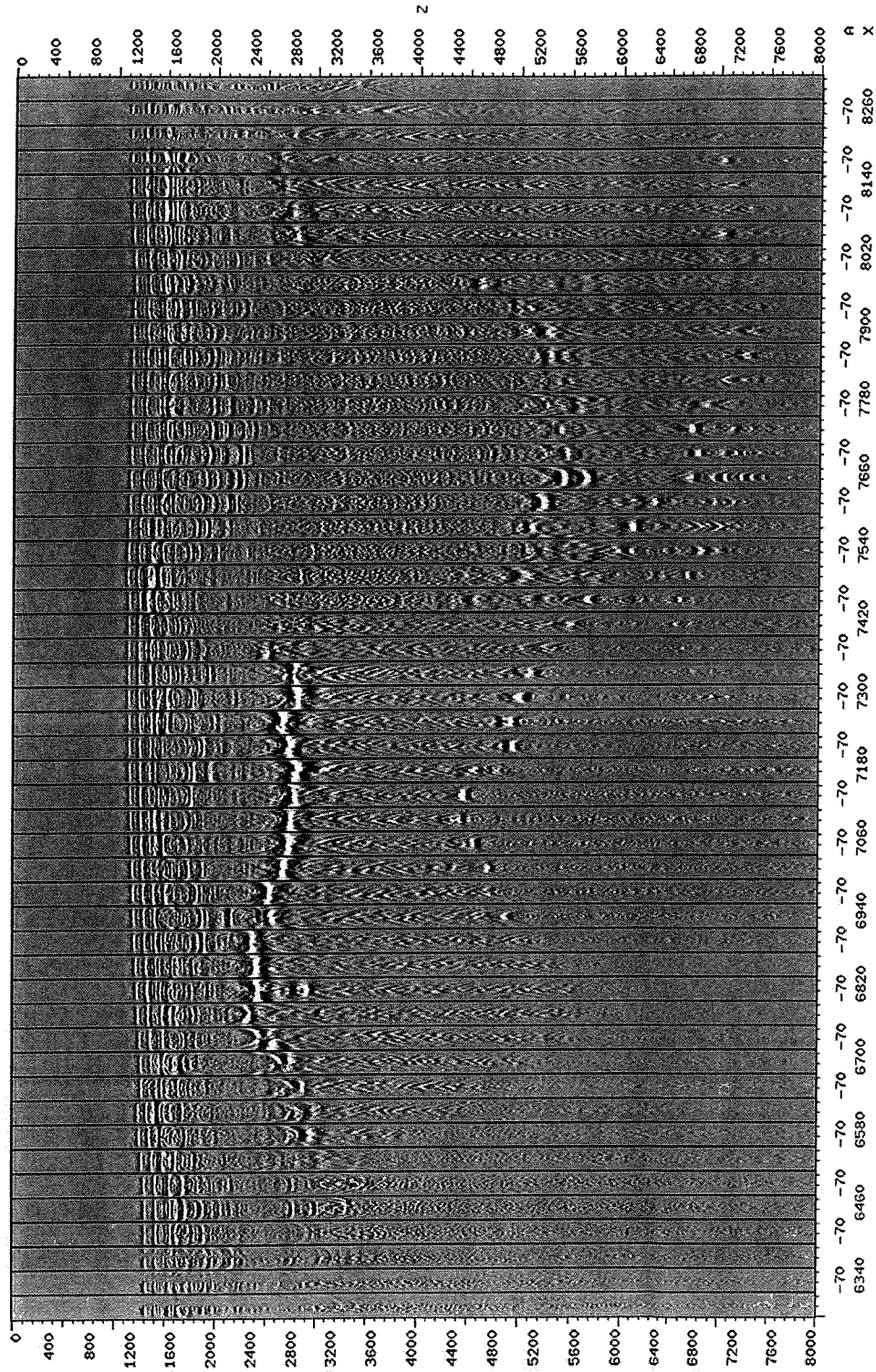


FIG. 3A

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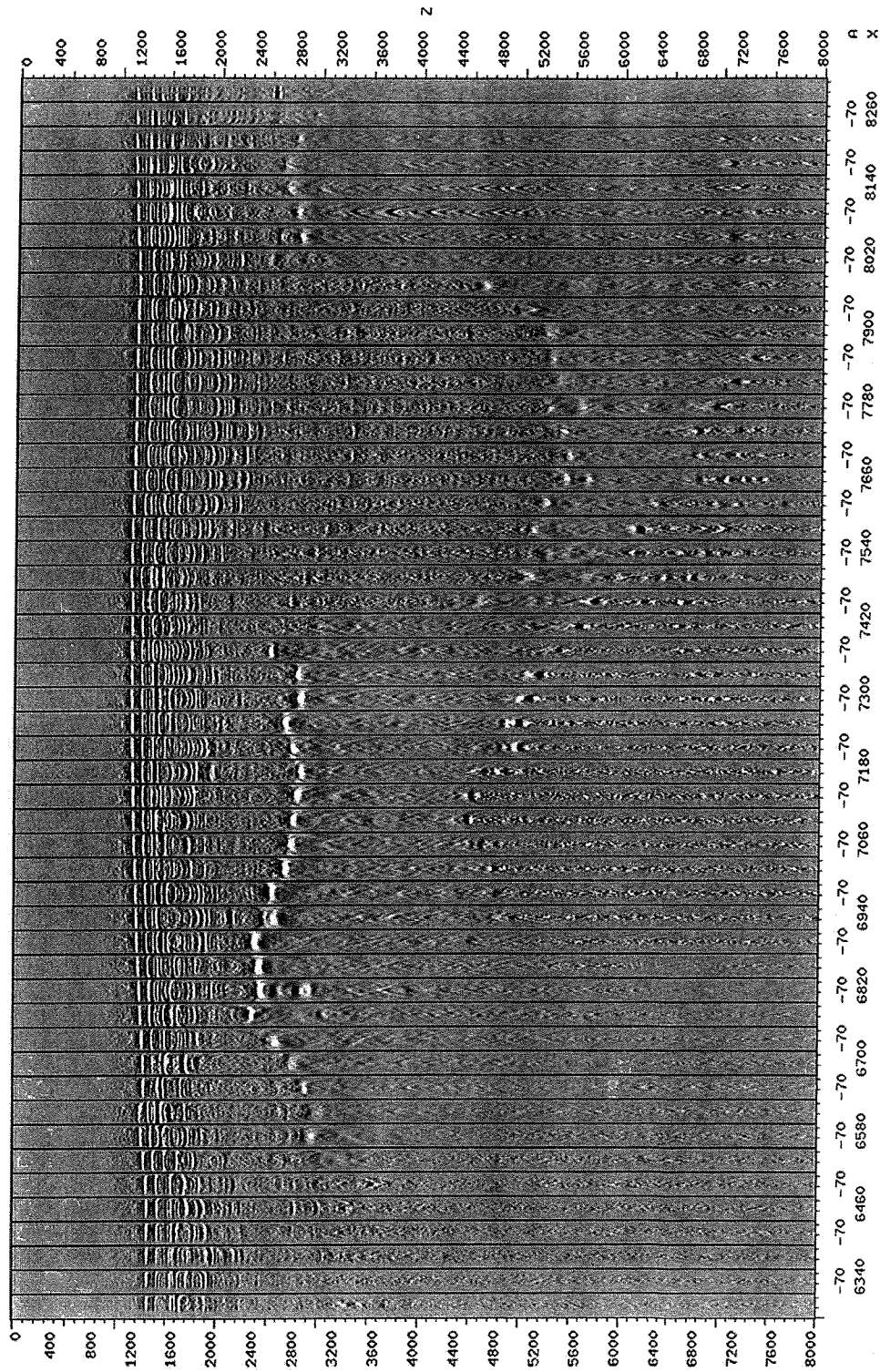


FIG. 3B

2

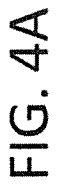


FIG. 4A

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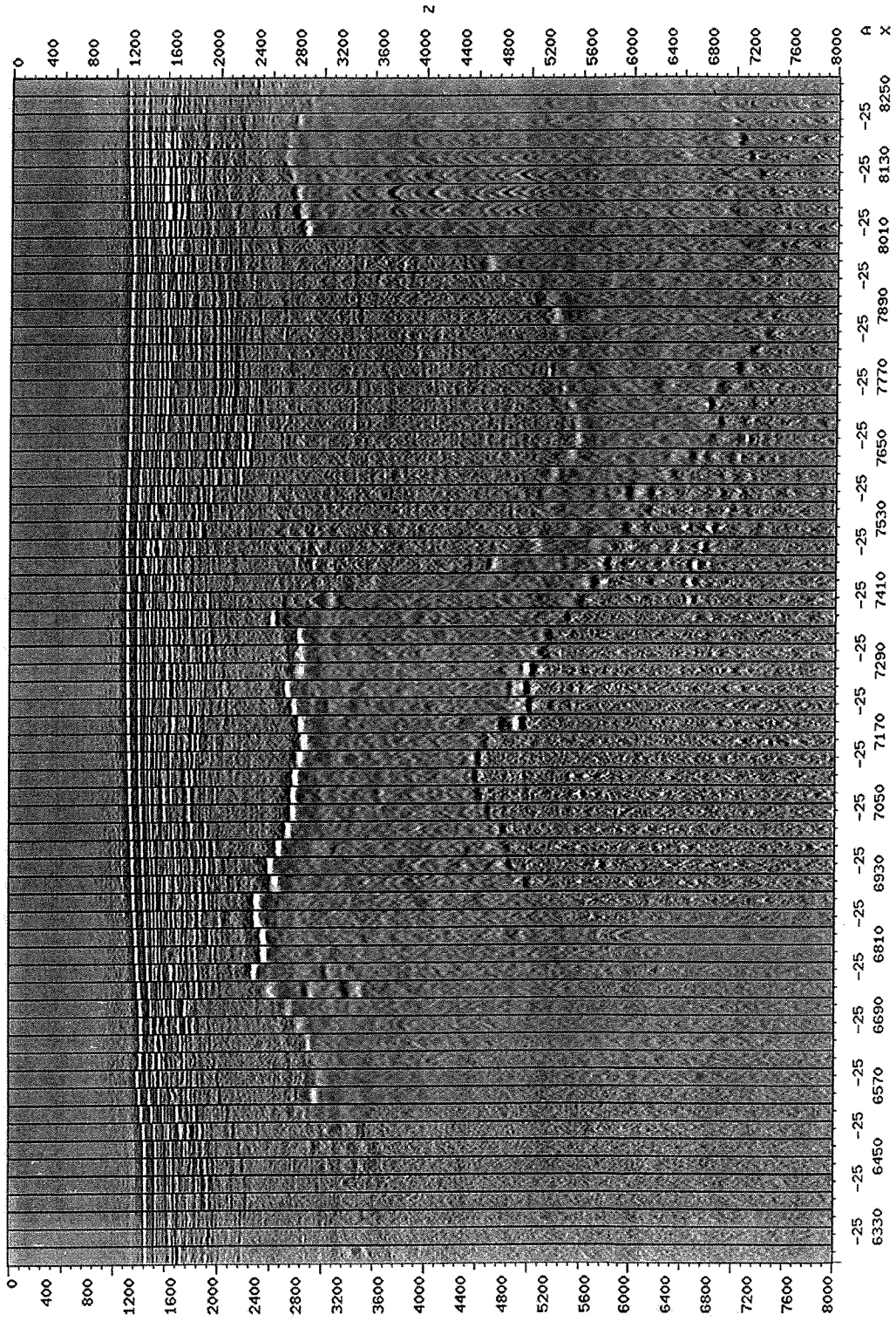


FIG. 4B



FIG. 5A

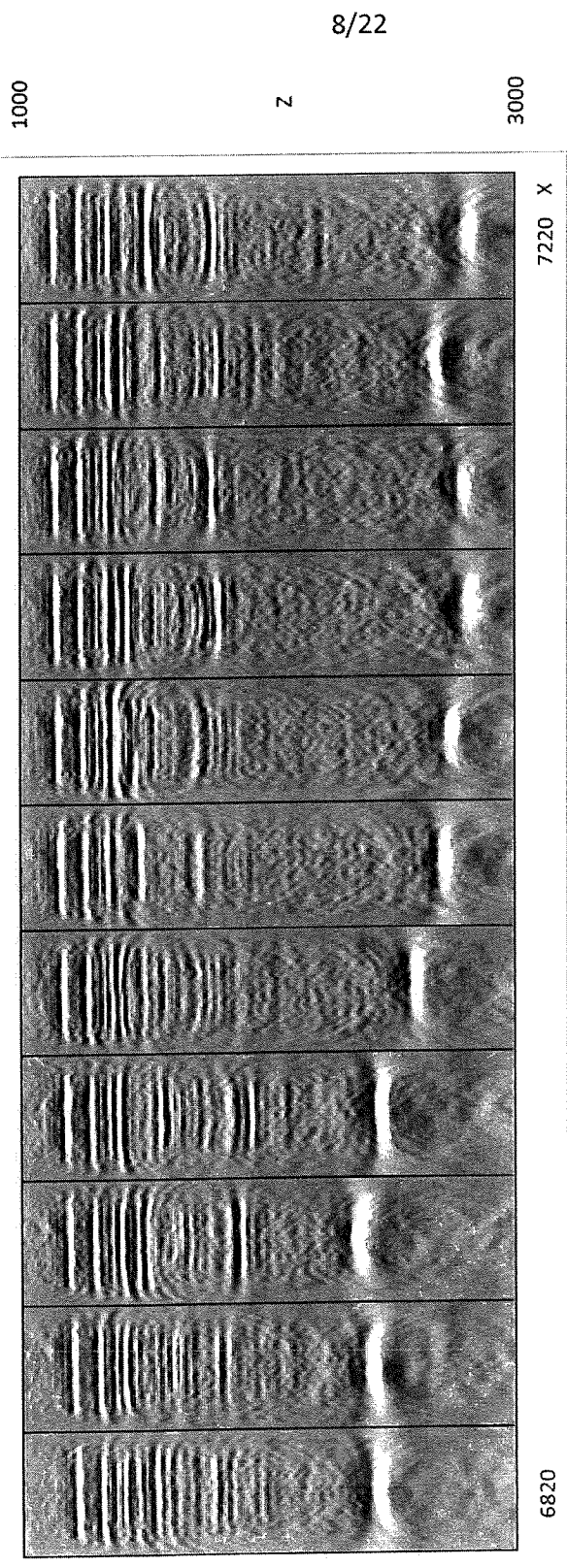


FIG. 5B

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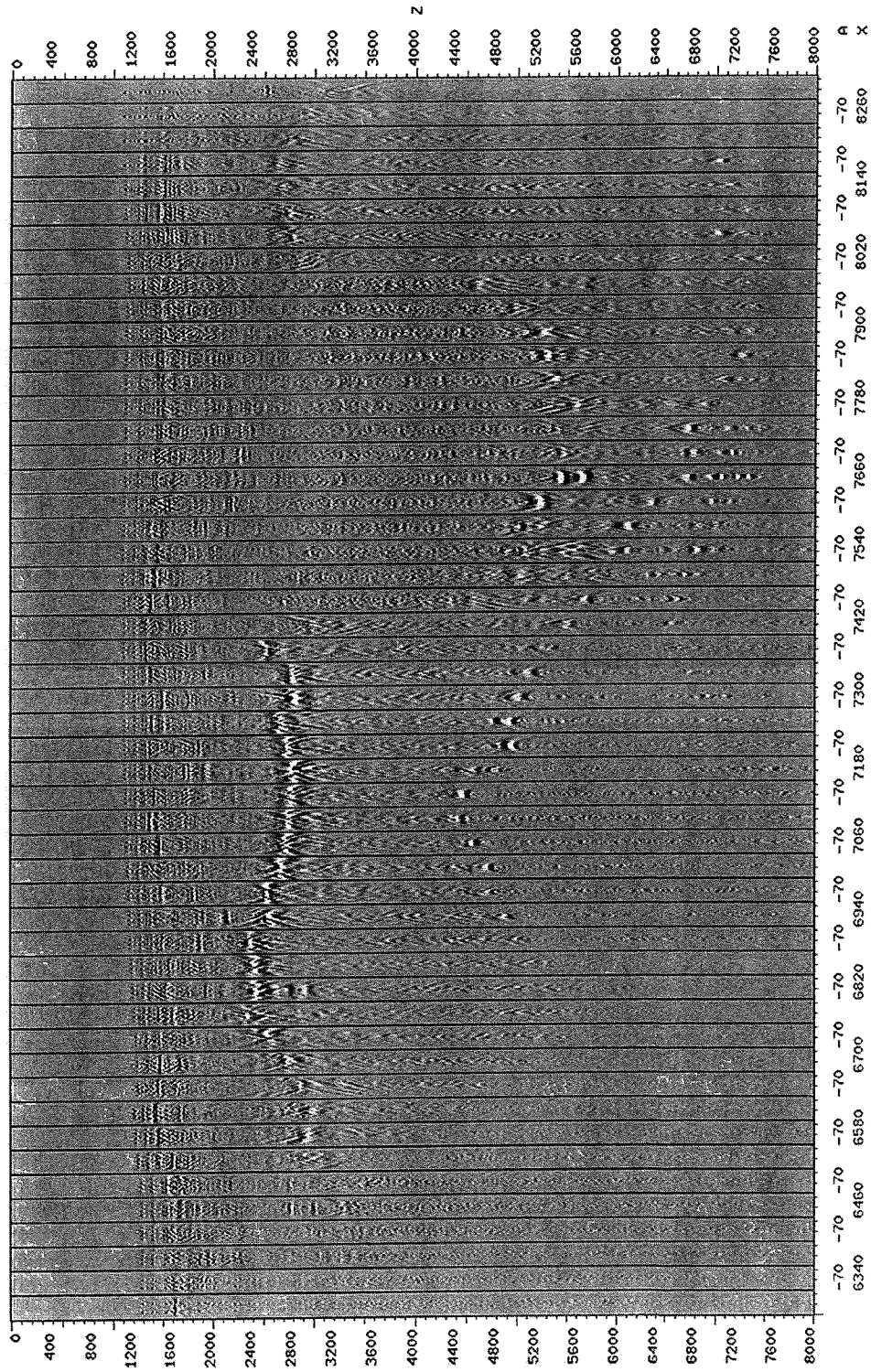


FIG. 6A

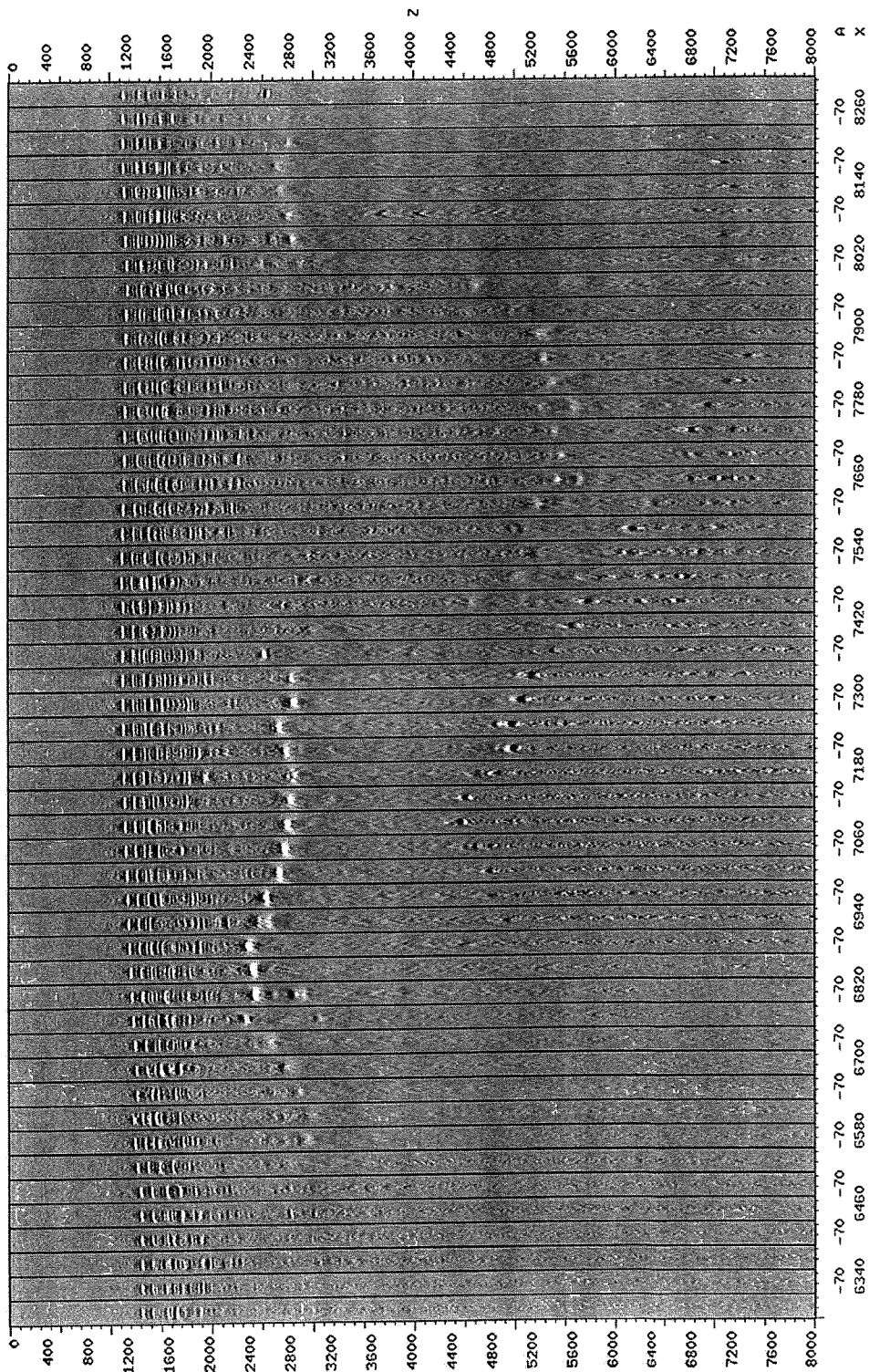


FIG. 6B

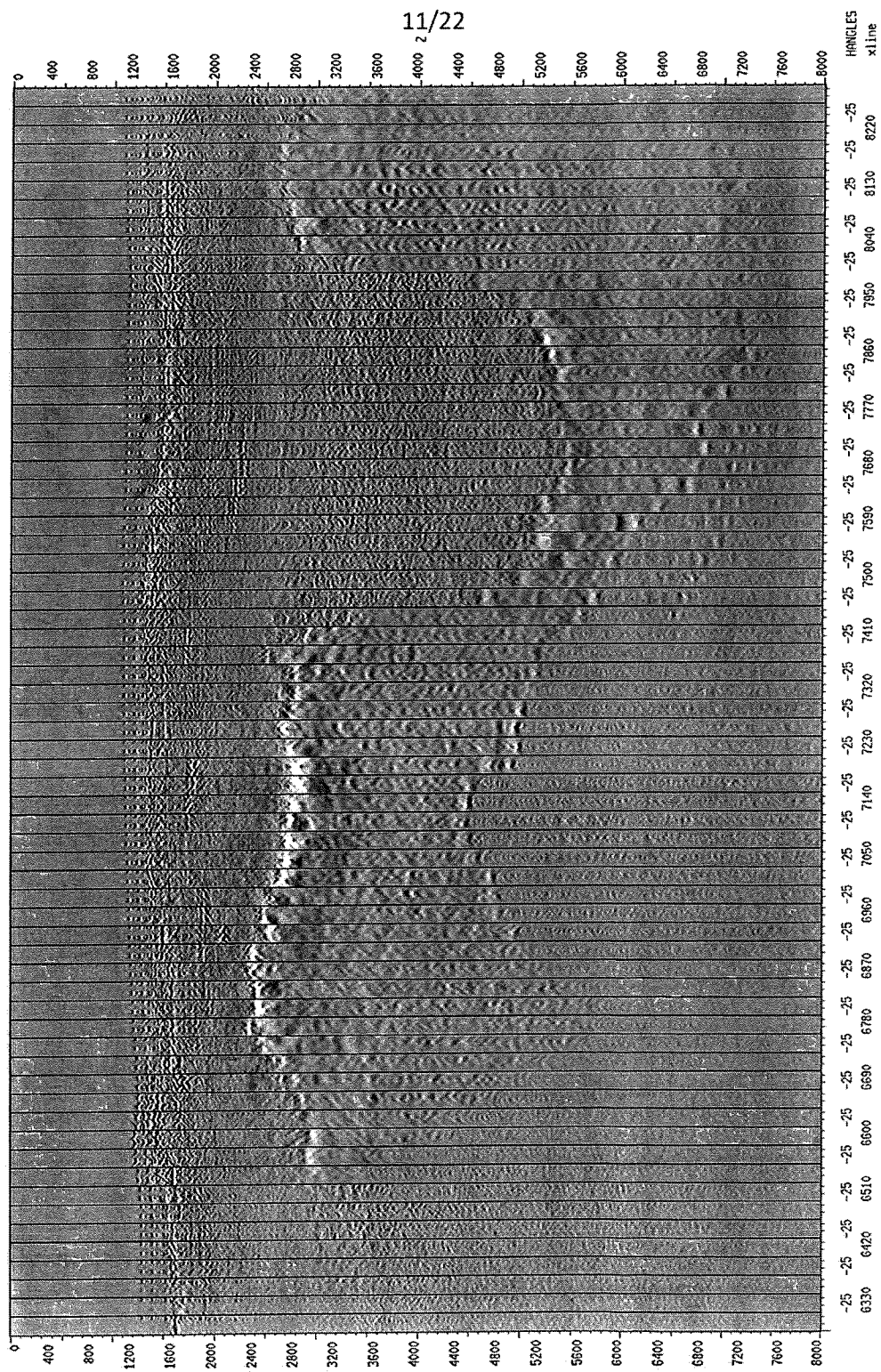


FIG. 7A

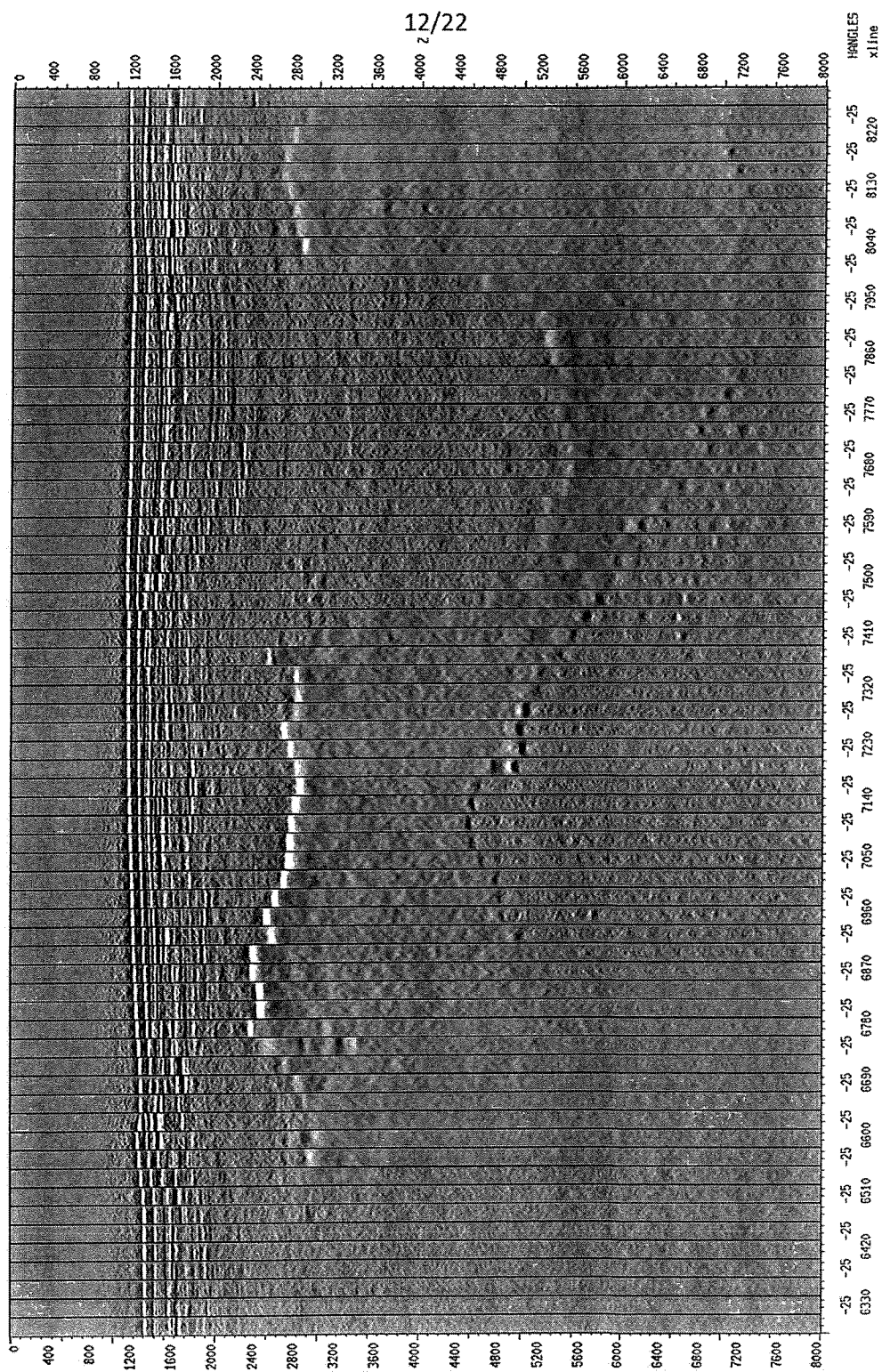


FIG. 7B

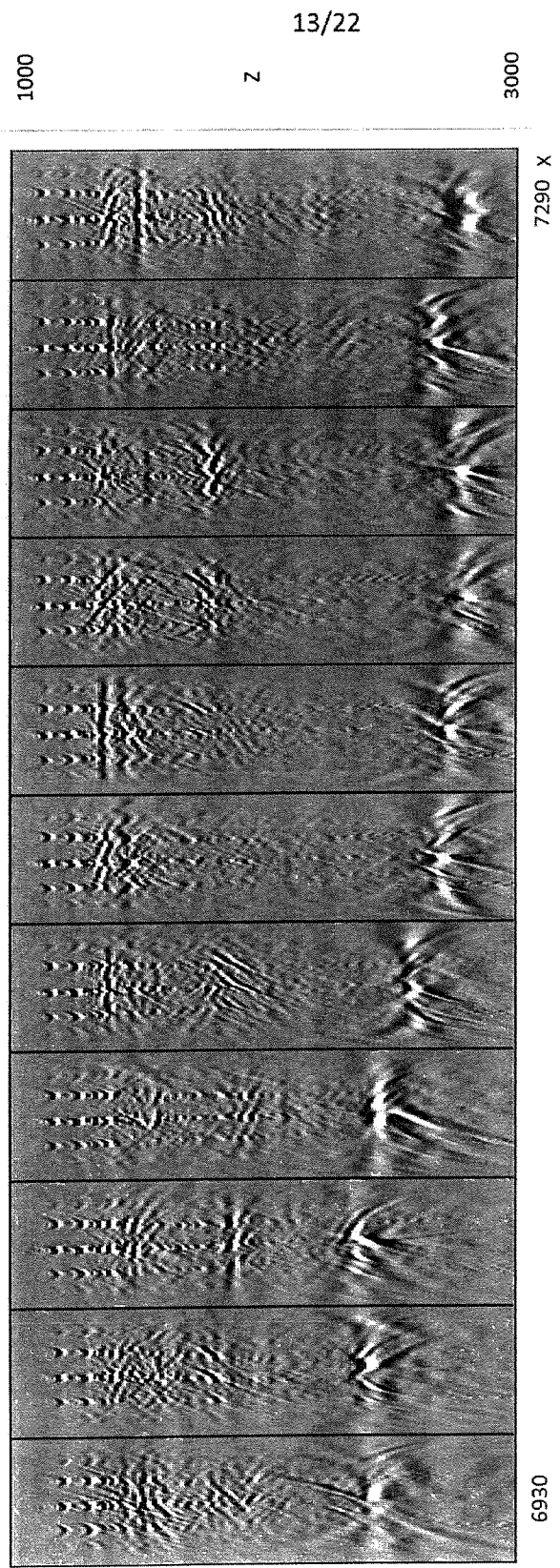


FIG. 8A

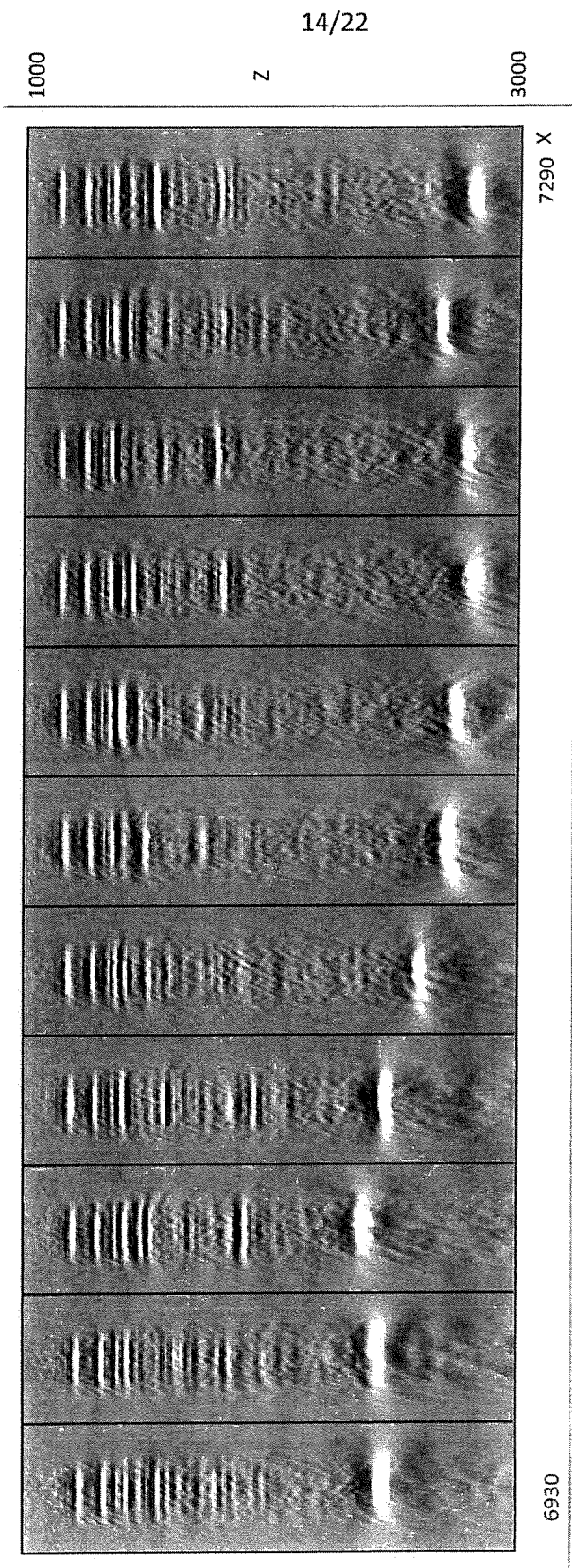


FIG. 8B

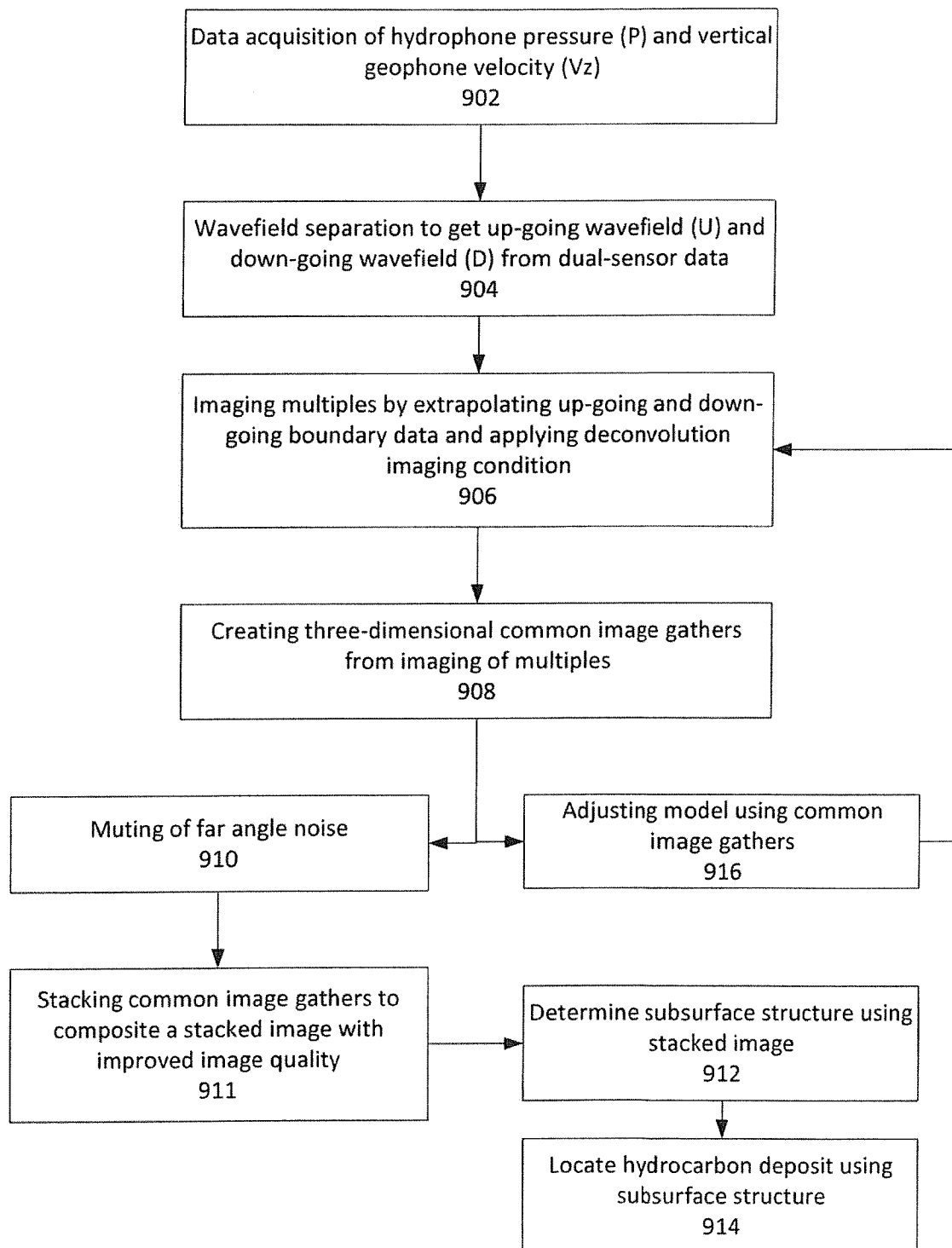


FIG. 9A

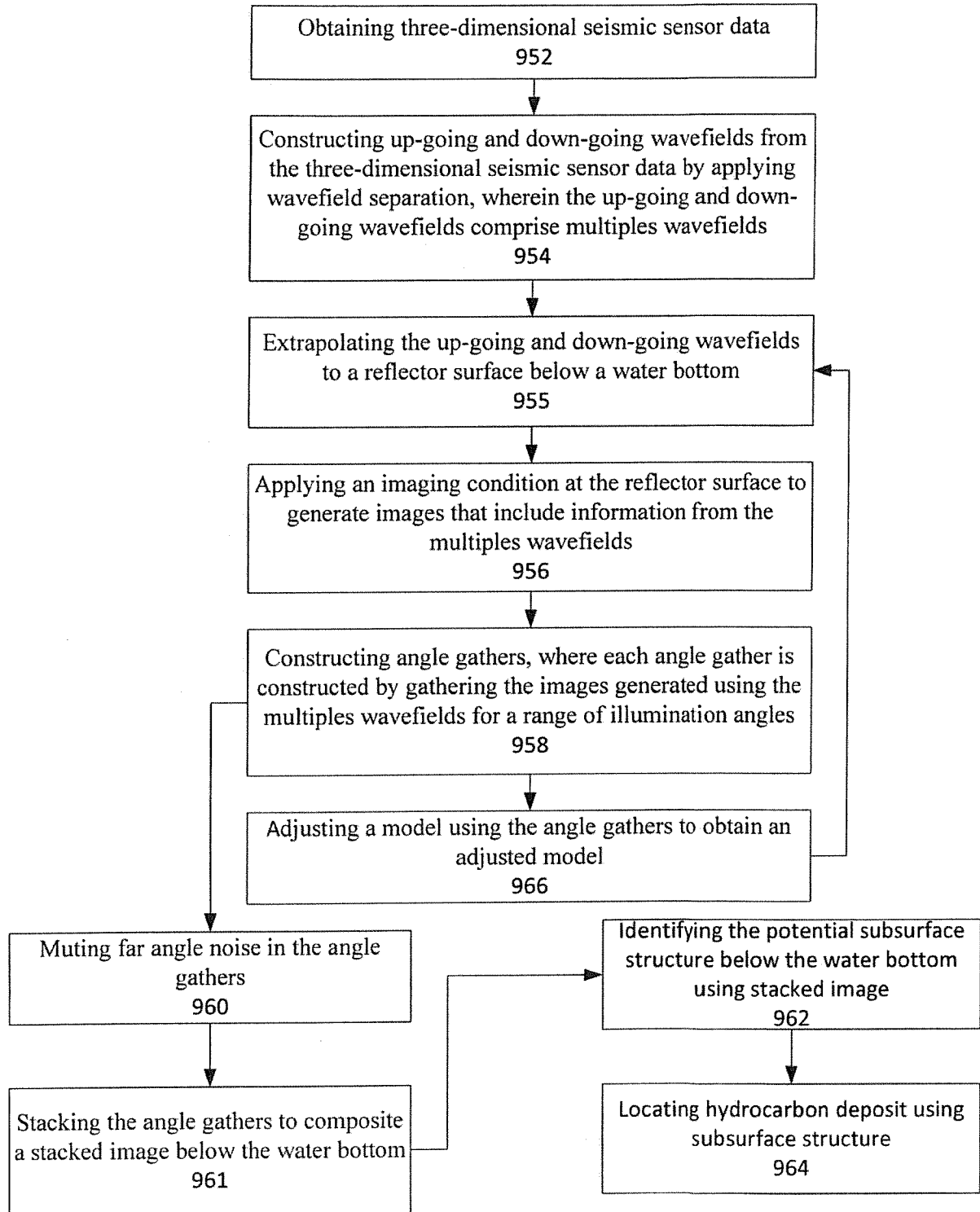


FIG. 9B

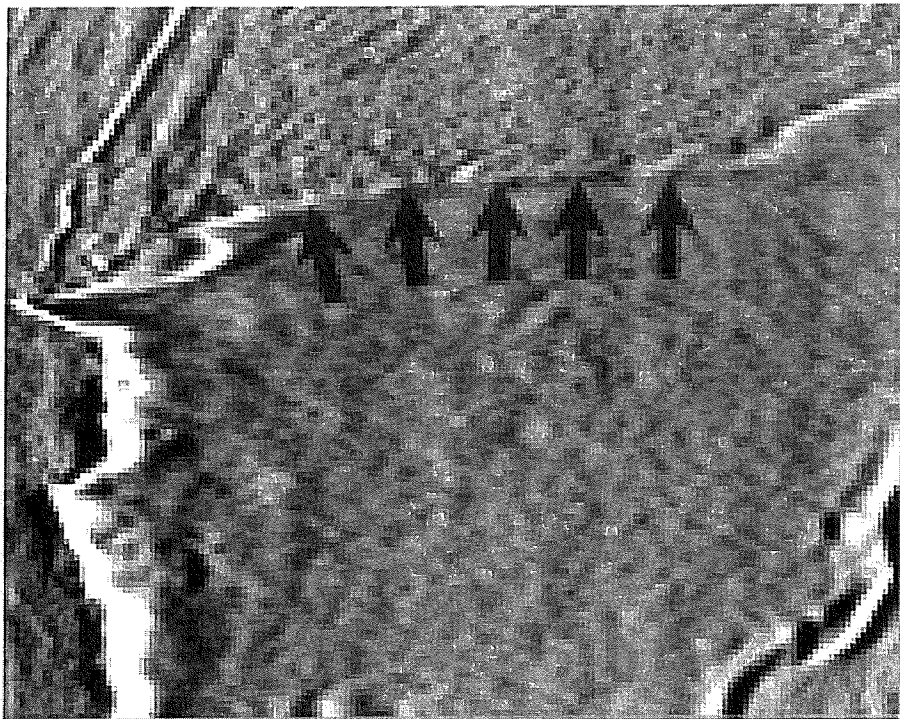


FIG. 10B

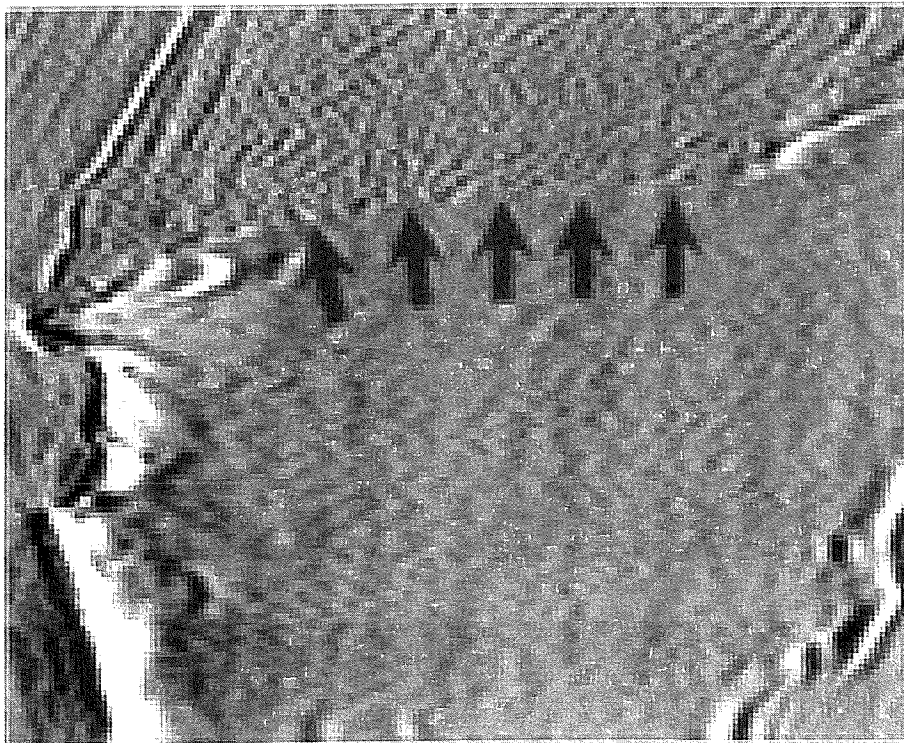


FIG. 10A



FIG. 11A



FIG. 11B

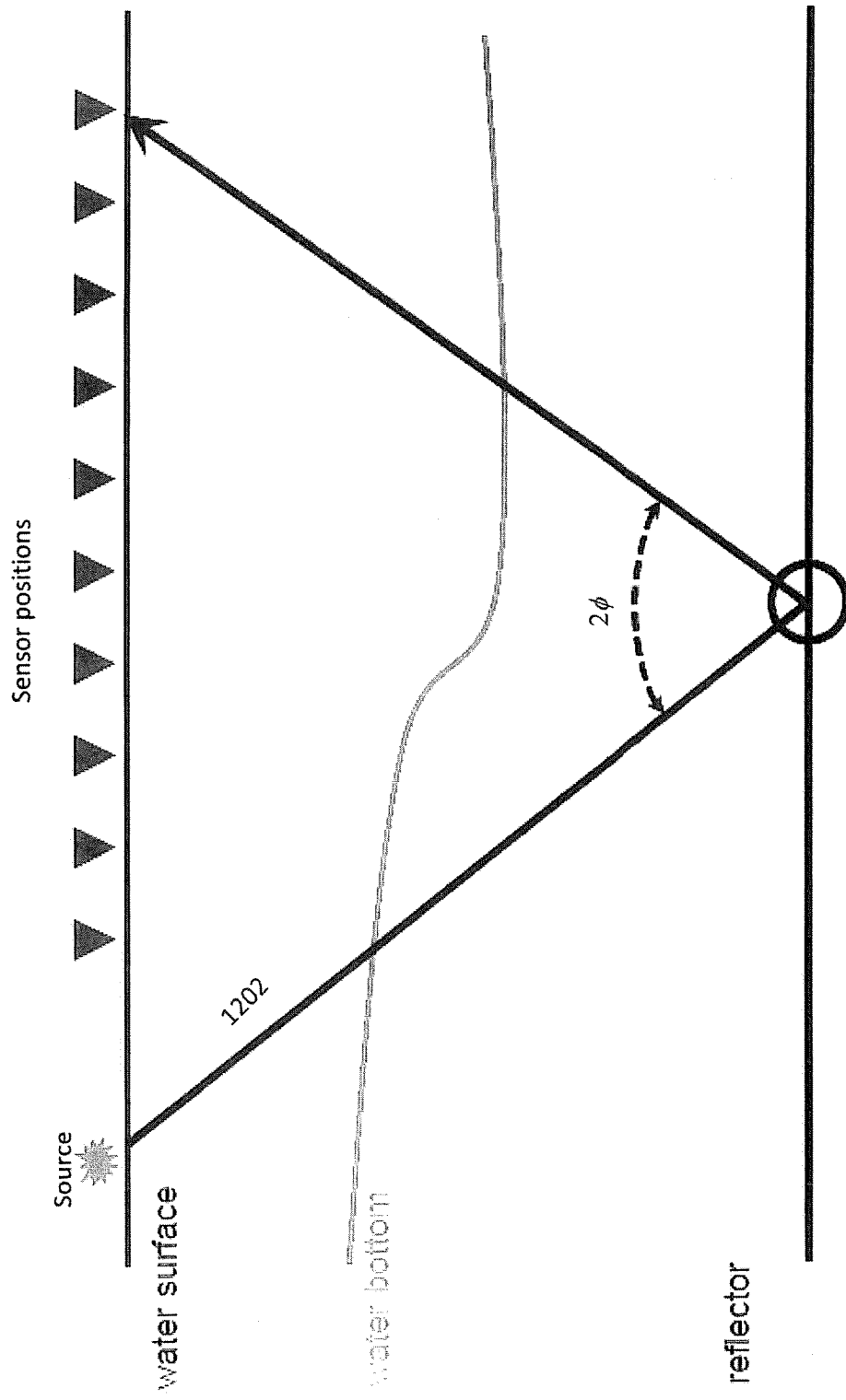


FIG. 12

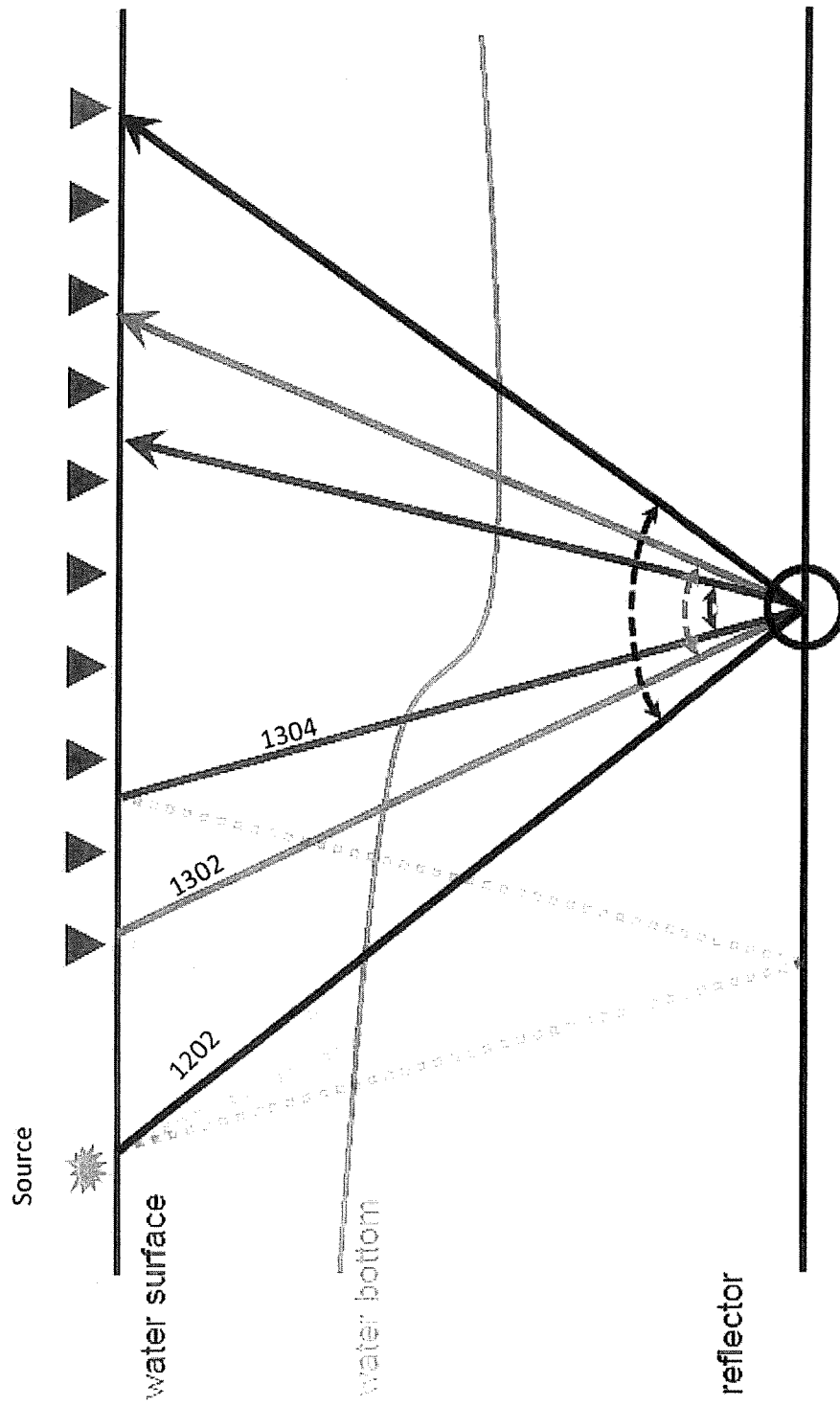


FIG. 13

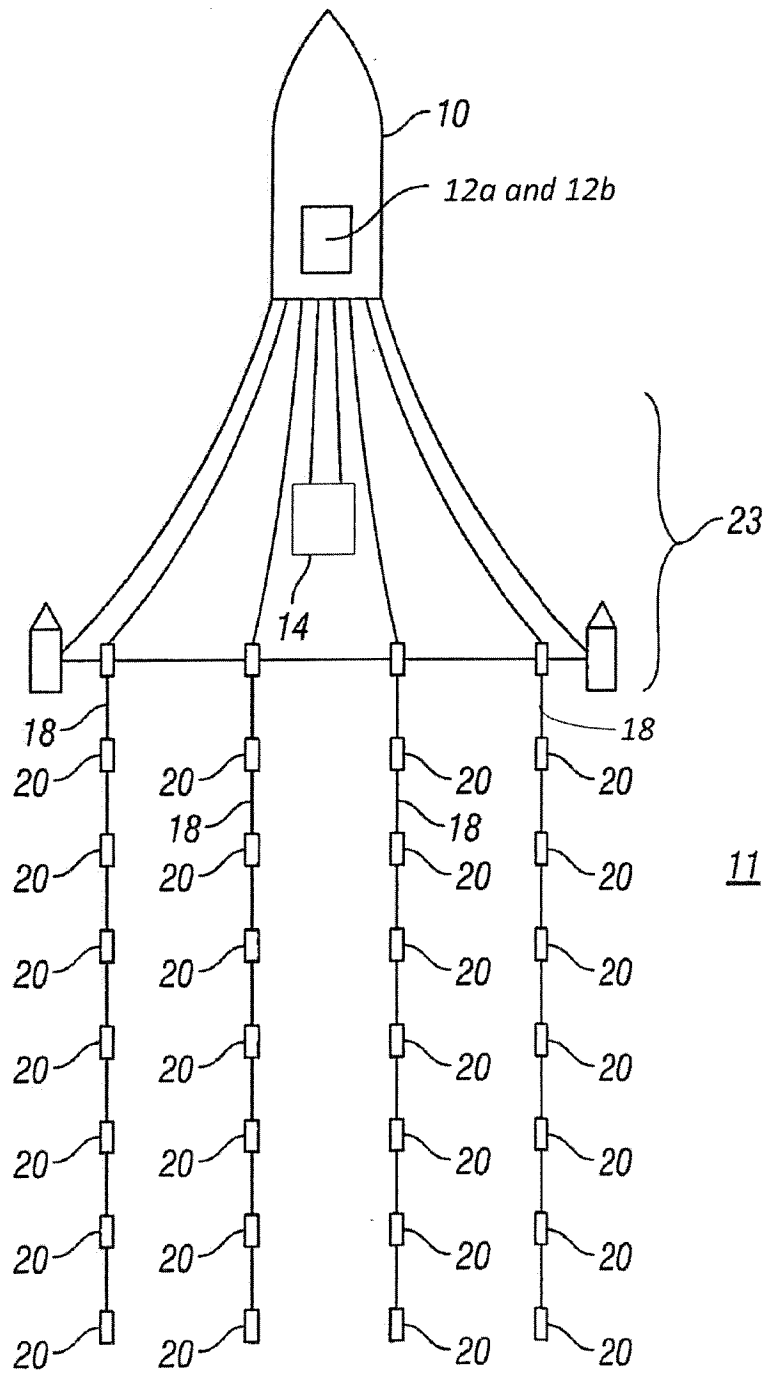


FIG. 14

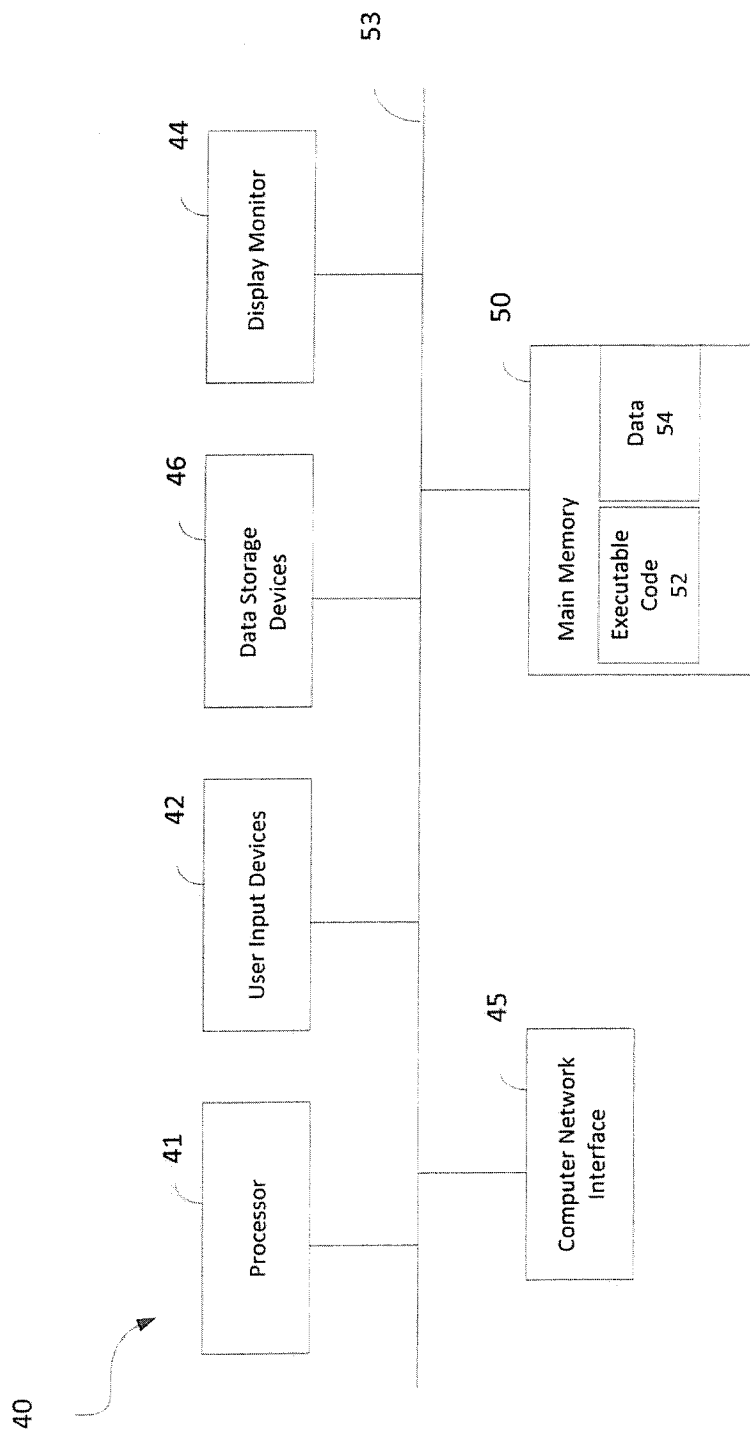


FIG. 15