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14. The method of claim 1, further including supplying a ceramic target.
15. The method of claim 1, wherein the transparent conductive oxide film is doped with at least one rare-earth ions.
16. The method of claim 15, wherein the at least one rare-earth ions includes erbium.
17. The method of claim 15, wherein the at least one rare-earth ions includes cerium.
18. A method of depositing a transparent conductive oxide film on a substrate, comprising:
 - placing the substrate in a reaction chamber;
 - adjusting power to a pulsed DC power supply coupled to a target in the reaction chamber;
 - adjusting an RF bias power coupled to the substrate;
 - adjusting gas flow into the reaction chamber; and
 - providing a magnetic field at the target in order to direct deposition of the transparent conductive oxide film on the substrate in a pulsed-dc biased reactive-ion deposition process, wherein the transparent conductive oxide film exhibits at least one particular property.
19. The method of claim 18, wherein at least one particular property of the transparent conductive oxide film is determined by parameters of the pulsed-dc biased reactive ion deposition process.
20. The method of claim 19, wherein the at least one particular property includes resistivity of the transparent conductive oxide film.
21. The method of claim 19, wherein the transparent conductive oxide film includes an indium-tin oxide film.
22. The method of claim 19, wherein the parameters include oxygen partial pressure.
23. The method of claim 19, wherein the parameters include bias power.
24. The method of claim 18, wherein the target can include at least one rare-earth ions.
25. The method of claim 24, wherein the at least one rare-earth ions includes erbium.
26. The method of claim 24, wherein the at least one rare-earth ion includes cerium.

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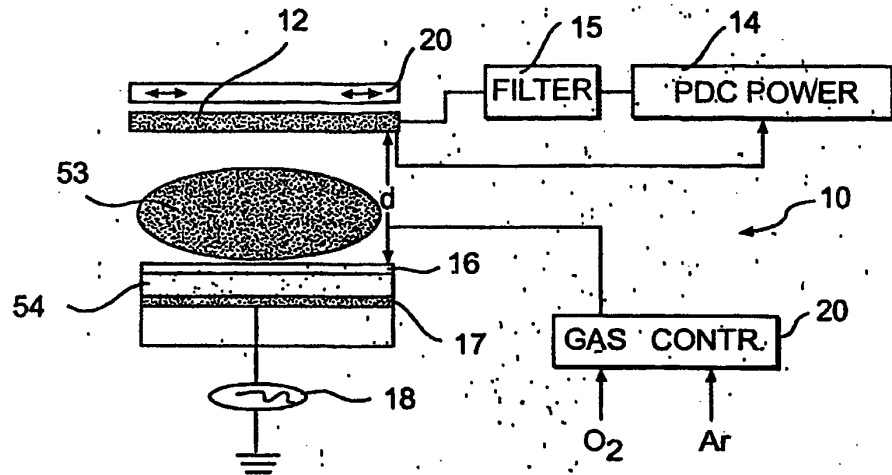


FIG. 1A

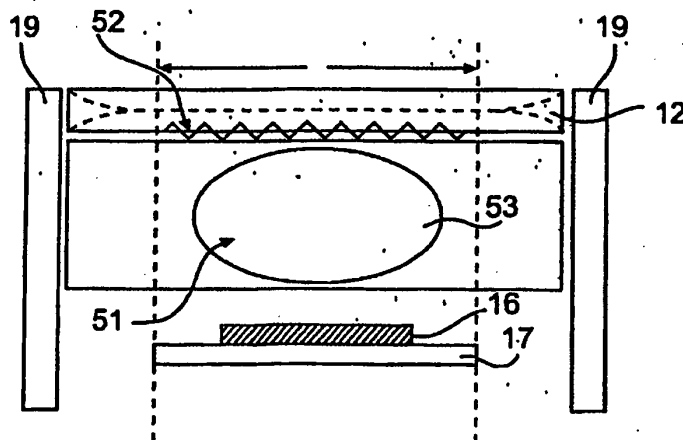


FIG. 1B

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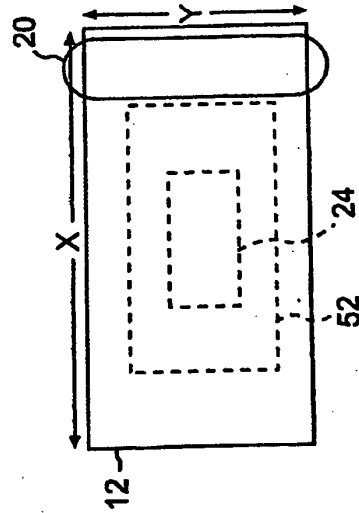


FIG. 2

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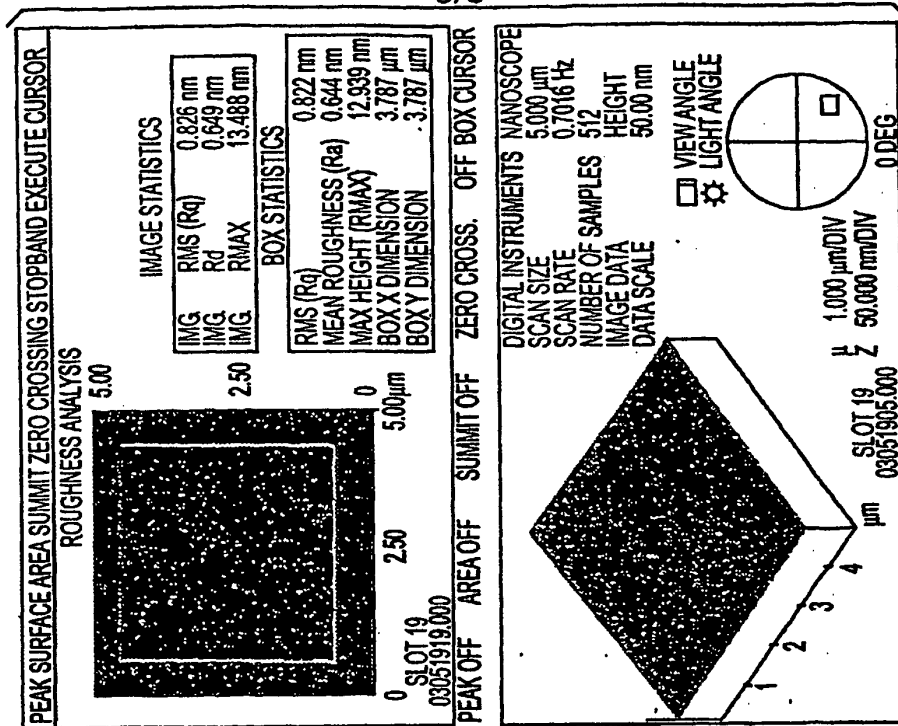


FIG. 3B

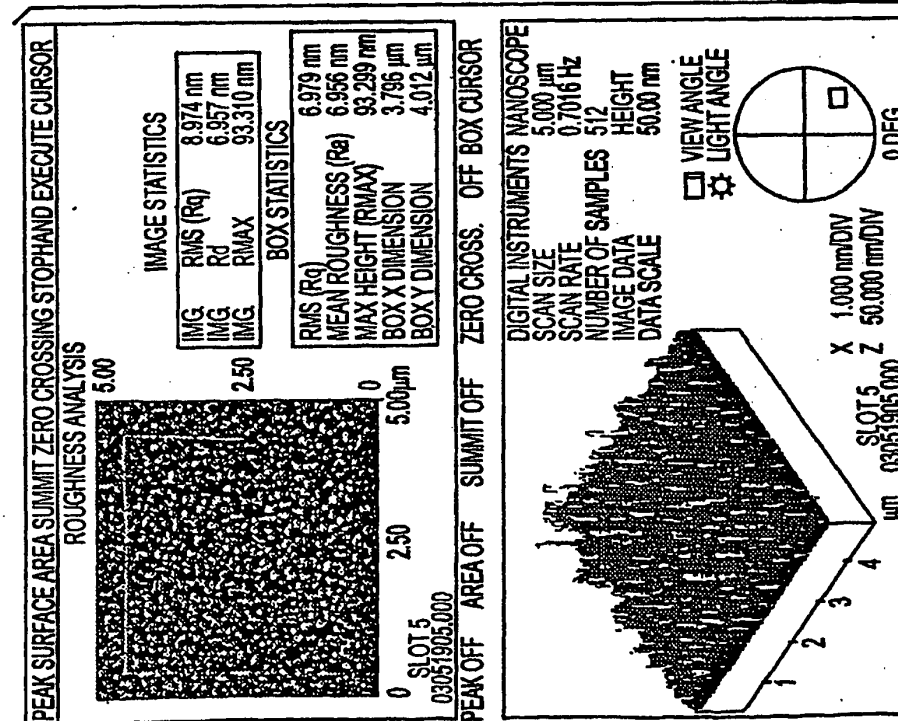


FIG. 3A

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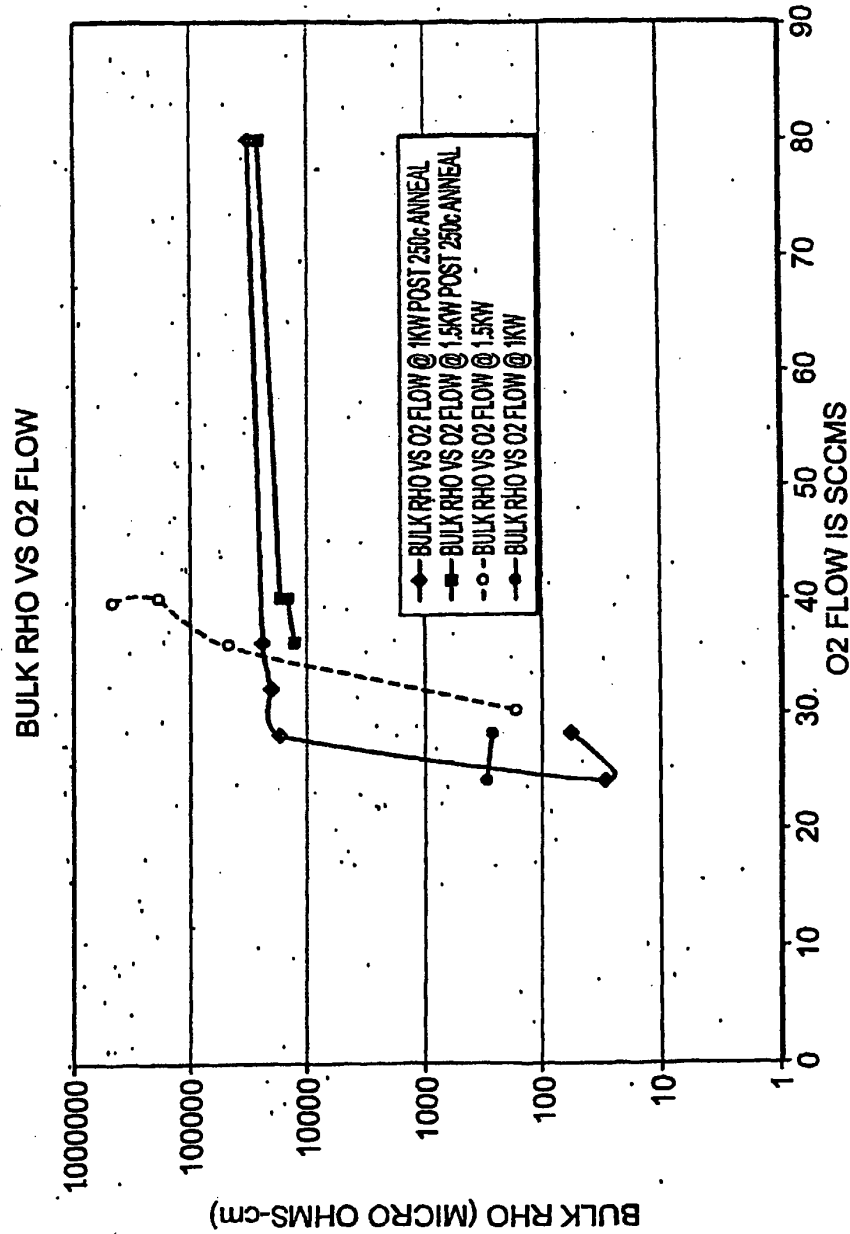


FIG. 4

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