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(54) Title: A PLASMA POLYMERISATION METHOD FOR COATING A SUBSTRATE WITH A POLYMER

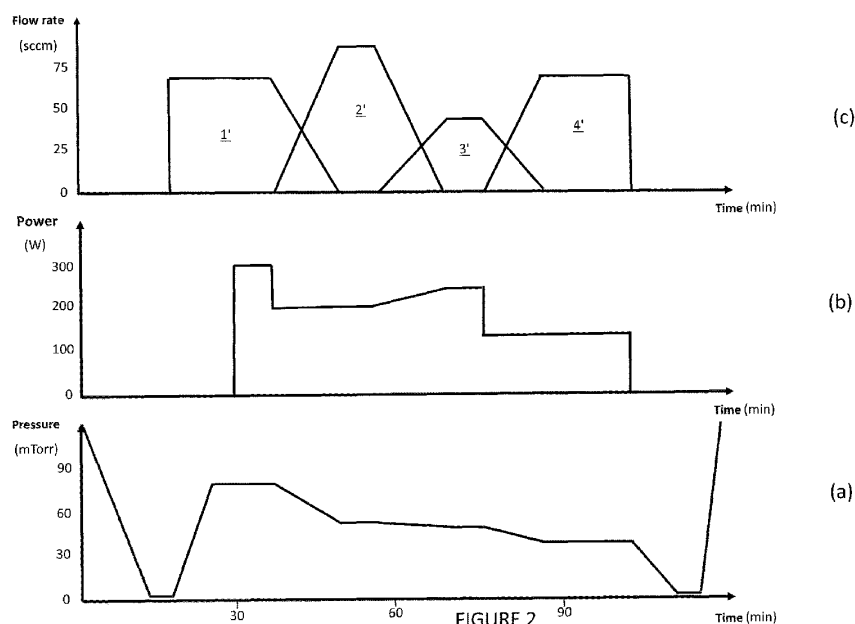


FIGURE 2

(57) Abstract: A plasma polymerisation method for coating a substrate with a polymer layer, which method includes: providing a substrate to be coated within a plasma chamber; introducing a flow of a first polymer precursor to the plasma chamber; applying a power at a level greater than zero Watts (W) and converting the first polymer precursor to a first polymer precursor plasma; exposing the substrate to the first polymer precursor plasma; introducing a flow of a second polymer precursor to the plasma chamber; applying a power at a level greater than zero Watts (W) and converting the second polymer precursor to a second polymer precursor plasma; and exposing the substrate to the second polymer precursor plasma, wherein exposing the substrate to the first polymer precursor plasma forms a first polymer layer thereon and exposing the substrate to the second polymer precursor plasma forms a second polymer layer thereon, characterised by maintaining the power at a level greater than zero Watts (W) between exposing the substrate to the first

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