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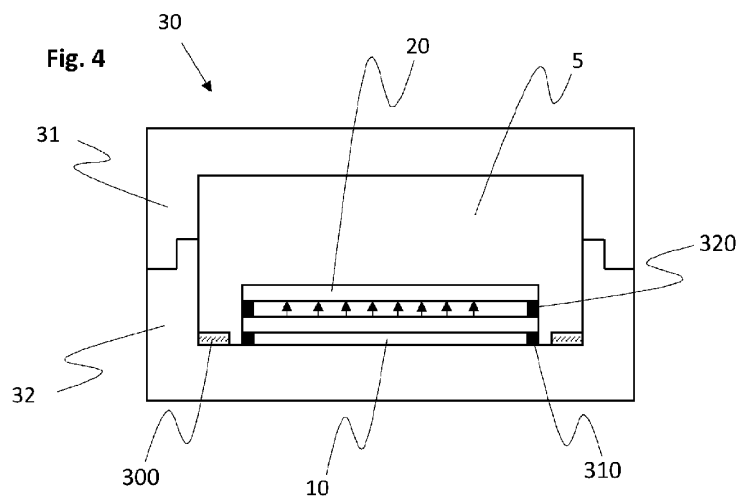
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(54) Title: SYSTEM AND METHOD OF PRODUCING MONOCRYSTALLINE LAYERS ON A SUBSTRATE



(57) Abstract: A system (100) for producing an epitaxial monocrystalline layer on a substrate (20) comprising: an inner container (30) defining a cavity (5) for accommodating a source material (10) and the substrate (20); an insulation container (50) arranged to accommodate the inner container (30) therein; an outer container (60) arranged to accommodate the insulation container (50) and the inner container (30) therein; and heating means (70) arranged outside the outer container (60) and configured to heat the cavity (5), wherein the inner container (30) comprises a plurality of spacer elements (320) arranged to support the substrate (20) at a predetermined distance above a solid monolithic source material (10), wherein each spacer element (320) comprises a base portion (321) and a top portion (322), wherein at least part of the top portion (322) tapers towards an apex (323) arranged to contact the substrate (20). A corresponding method is also disclosed.

[Continued on next page]

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