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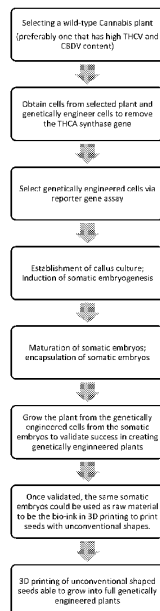
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(54) Title: PROCESS FOR PRODUCING A GENETICALLY MODIFIED SEED

Figure 1



(57) Abstract: This invention relates to a process for producing a genetically modified seed. In particular, it relates to a process of producing a genetically modified Cannabis seed that germinates into a plant. More particularly, the invention relates to a genetically modified Cannabis seed having a shape other than that of a naturally occurring wild type cannabis seed. In a first aspect of the invention, there is provided a process for producing a genetically modified Cannabis seed that germinates into a plant, the process comprising: (a) preparing a cell culture comprising genetically engineered cannabis cells having at least one gene that expresses a psychoactive cannabinoid deleted; (b) establishing a callus culture for forming a somatic embryo; (c) forming a bio-ink comprising the somatic embryo; and (d) three-dimensional (3D) printing the seed.



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