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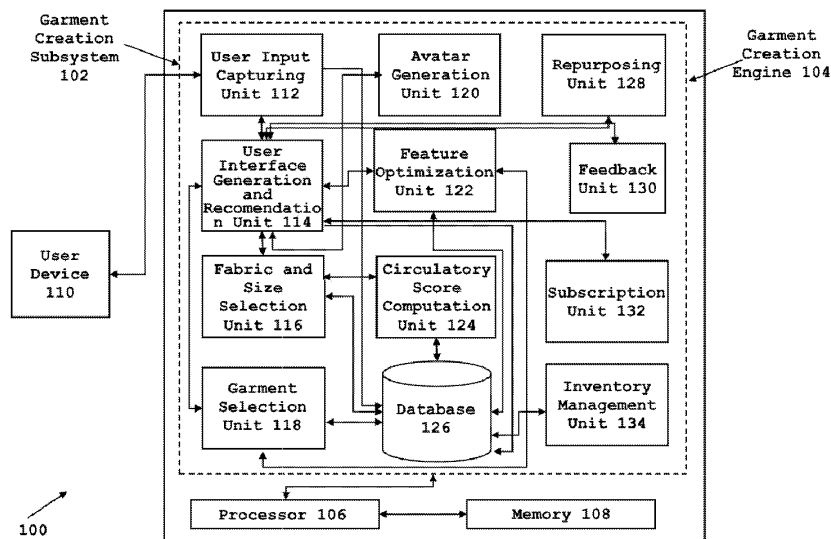


FIG. 1

(57) Abstract: A system and method for generating an optimized online garment creation platform is provided. Multiple fabric pieces data are rendered via a user interface (UI) on user device. Fabric pieces data are tagged on UI based on a circulatory score. Size of garment type is tagged on UI using tagged fabric piece data for designing a garment via UI. Garment types are rendered in template form on UI. The garment type templates are tagged on UI. Tagged garment type template is split into fixed number of panels. Images in panels of garment type template are optimally embedded. A pixel per distance metric of edited region of the image is computed for determining size of edited region of image. Edited region of image is added as a swatch in the garment type template. The panels of the garment type template are tagged for embedding with edited images.

[Continued on next page]

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