

Title (en)
SEWING APPARATUS

Title (de)
NÄHVORRICHTUNG

Title (fr)
MACHINE A COUDRE

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Application
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Abstract (en)
[origin: WO0044972A1] The invention provides a novel sewing machine for carrying out in an improved manner sewing operations carried out by conventional sewing machines as well as operations that conventional sewing machines cannot perform, such as bonding fabrics without the use of threads and creating ornamental patterns in fabrics. The novel sewing machine comprises one or more containers (15) for one or more radiation curable polymer precursors, one or more injector (15-20, 28) devices for injecting the precursor(s) at selected targets, one or more sources (16) of curing radiation, dosing means for determining the volume of the precursor charge injected at each injection, and means (21) for synchronically activating the injector device and the radiation source. The polymer precursor(s) are injected in the fluid state at the selected target(s) and are then cured by polymerization or cross-linking to acquire a solid state. The novel sewing machine can also include one or more components of prior art sewing machines for the purpose of carrying out any desired operation that said components can carry out.

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