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Kamen et al.(10) **Pub. No.: US 2021/0015998 A1**(43) **Pub. Date: Jan. 21, 2021**(54) **INFUSION SET AND INSERTER ASSEMBLY**(52) **U.S. Cl.**(71) Applicant: **DEKA Products Limited Partnership,**
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Tracey, Litchfield, NH (US)(57) **ABSTRACT**(21) Appl. No.: **17/063,700**(22) Filed: **Oct. 5, 2020****Related U.S. Application Data**(62) Division of application No. 15/434,906, filed on Feb.
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16, 2016.**Publication Classification**(51) **Int. Cl.***A61M 5/162* (2006.01)*A61M 5/142* (2006.01)*A61M 5/168* (2006.01)

A two-stage infusion set inserter system is disclosed. The inserter system includes an inserter assembly including a housing including a rotatable button assembly comprising ramps and and tab indents and a non-rotatable portion of housing, a sliding component comprising sliding component tabs, a needle carrier connected to an introduction needle, the needle carrier slidably movable from a starting position to an injection position and then to a second ending position, a sliding component spring, and a needle spring, wherein the rotatable button assembly rotates from a locked to an unlocked position, wherein when force is applied onto the rotatable button assembly, the sliding component and needle carrier are forced downward by the sliding component spring, and wherein when the needle carrier reaches the injection position, the needle spring forces the needle carrier upward towards the second ending position.

