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Parks et al.

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(54) **PERFORATION GUN COMPONENTS AND SYSTEM**

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See application file for complete search history.

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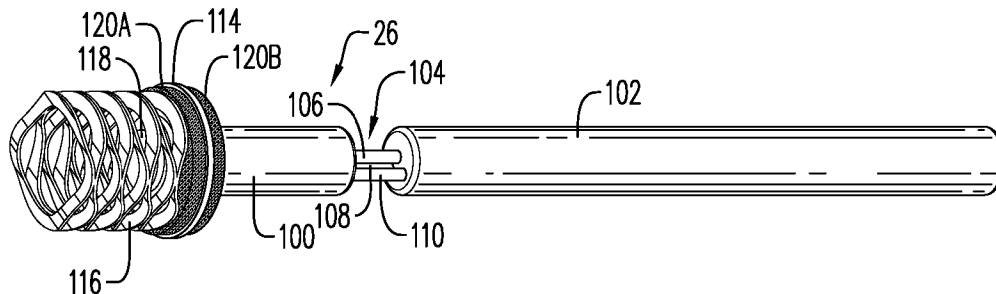
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(57) **ABSTRACT**

Components for a perforation gun system are provided including combinations of components including a self-centralizing charge holder system and a bottom connector that can double as a spacer. Any number of spacers can be used with any number of holders for any desired specific metric or imperial shot density, phase and length gun system.

20 Claims, 18 Drawing Sheets



Related U.S. Application Data

No. 15/617,344, filed on Jun. 8, 2017, which is a division of application No. 15/287,309, filed on Oct. 6, 2016, now Pat. No. 9,702,680, which is a division of application No. 14/904,788, filed as application No. PCT/CA2014/050673 on Jul. 16, 2014, now Pat. No. 9,494,021.

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F42D 1/04 (2006.01)
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E21B 43/119 (2006.01)
- (52) **U.S. Cl.**
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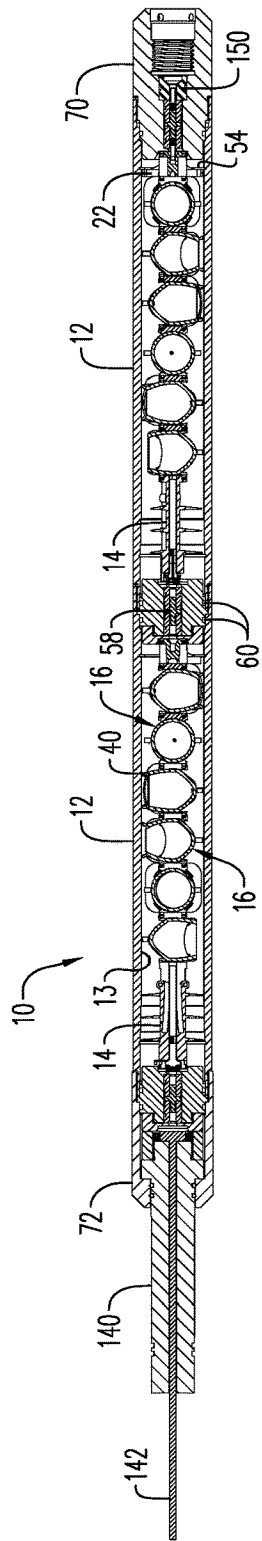


FIG. 1

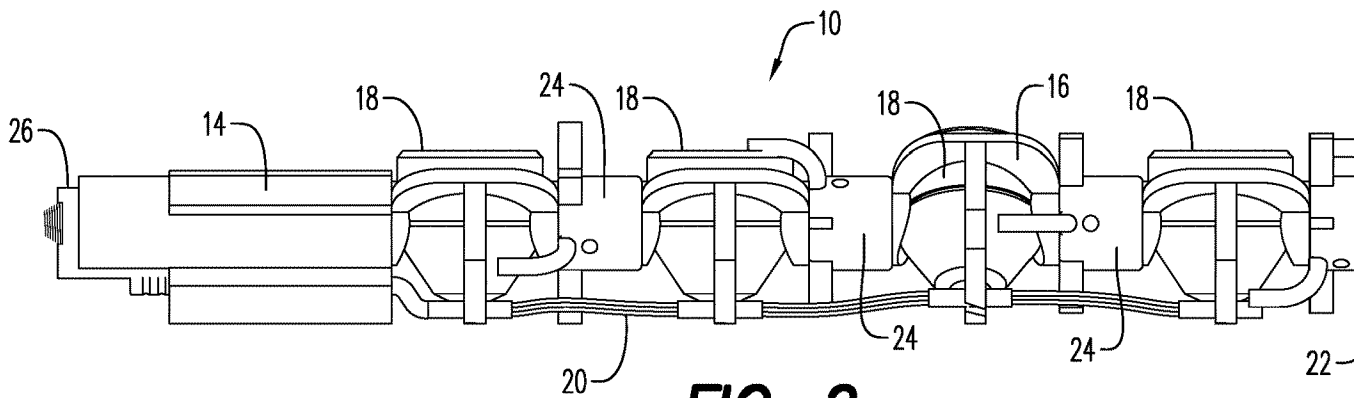


FIG. 2

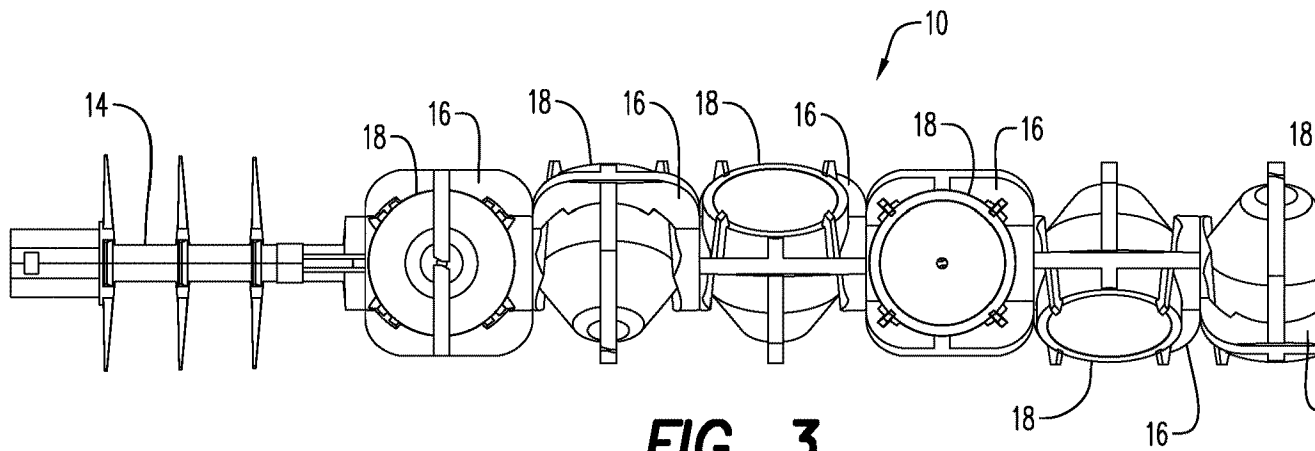


FIG. 3

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