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(54) Title: DOUBLE-STRANDED SPLINT ADAPTORS AND METHODS OF USE

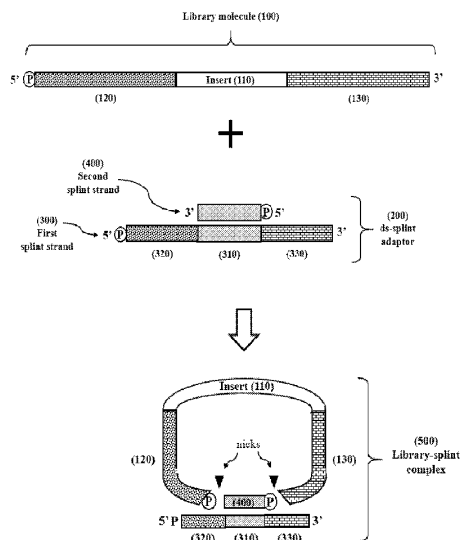


FIG. 1

(57) Abstract: The present disclosure provides compositions comprising nucleic acid double-stranded splint adaptors, including kits, and methods that employ the double-stranded splint adaptors. The double-stranded splint adaptors (200) can be used in a one-pot, multi-enzyme reaction to introduce one or more new adaptor sequences into a library molecule. The double-stranded splint adaptor (200) comprises a first splint strand (long splint strand (300)) and a second splint strand (short splint strand (400)), where the first and second splint strands are hybridized together to form the double-stranded splint adaptor (200) having a double-stranded region and two flanking single-stranded regions. The second splint strand (400) carries the new adaptor sequence(s) to be introduced, such as for example a universal binding sequence and/or an index sequence.

[Continued on next page]

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