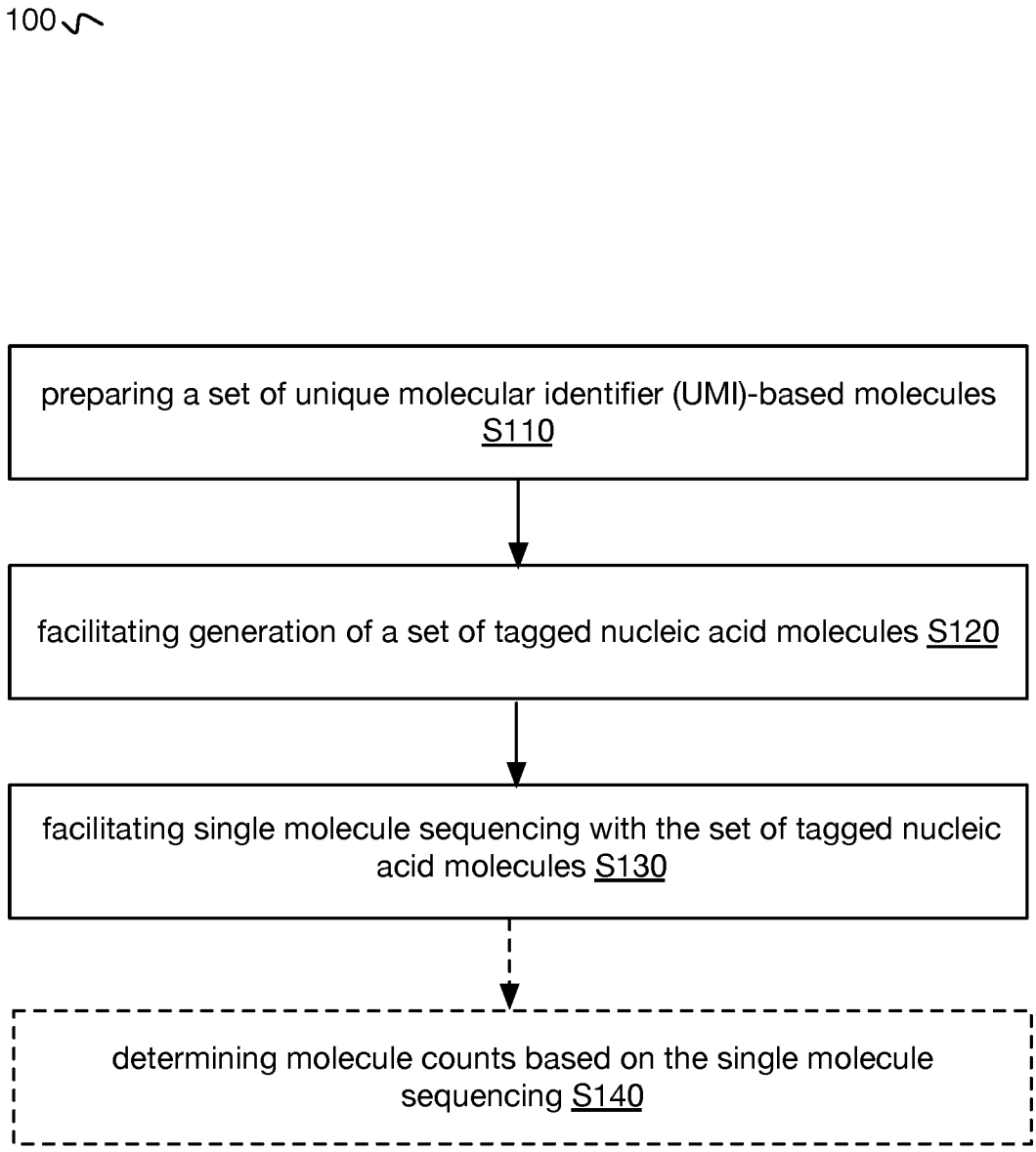

100
preparing a set of unique molecular identifier (UMI)-based molecules S110
facilitating generation of a set of tagged nucleic acid molecules S120
facilitating single molecule sequencing with the set of tagged nucleic acid molecules S130
determining molecule counts based on the single molecule sequencing S140

FIG. 1

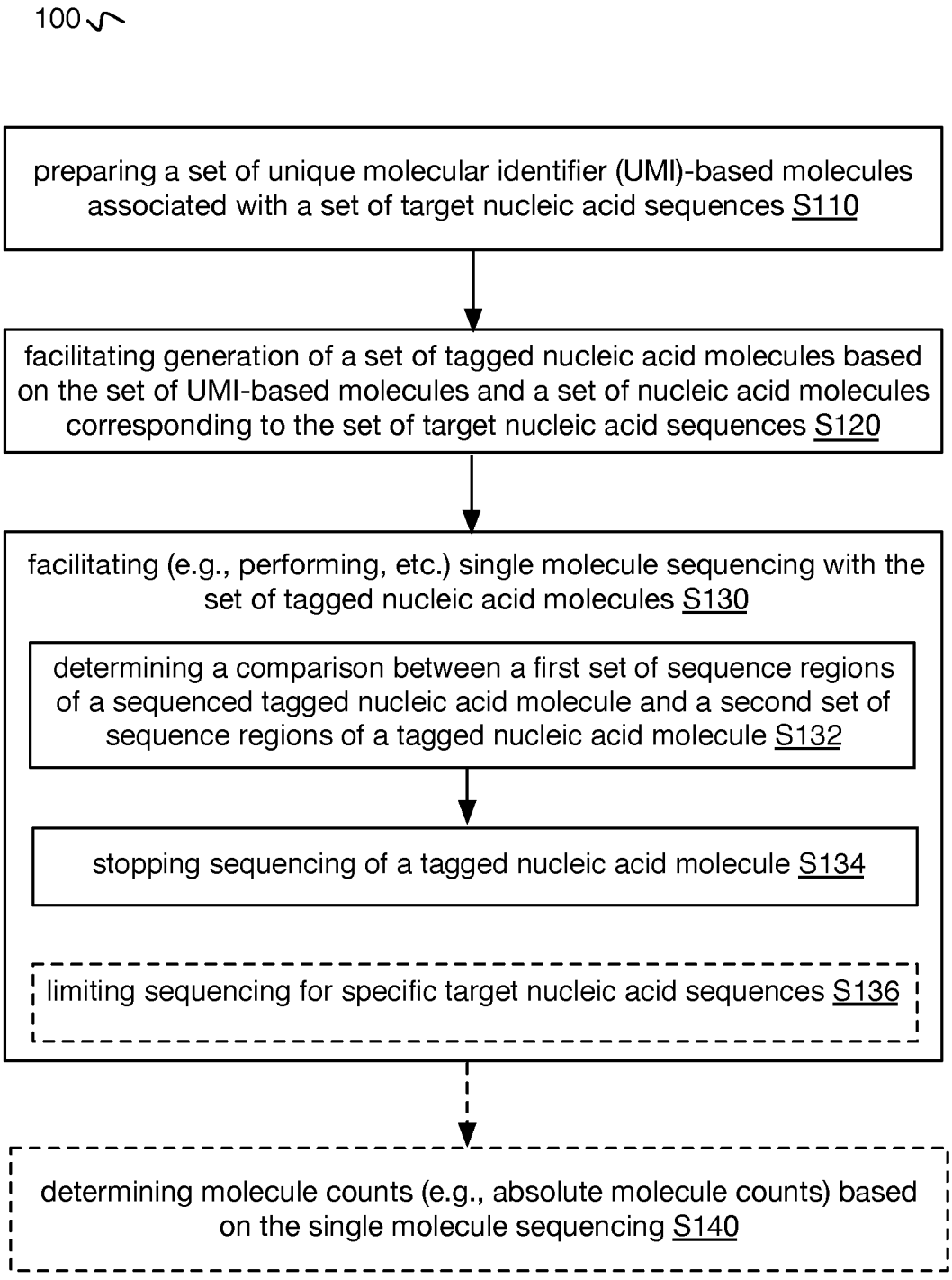

100
preparing a set of unique molecular identifier (UMI)-based molecules associated with a set of target nucleic acid sequences S110
facilitating generation of a set of tagged nucleic acid molecules based on the set of UMI-based molecules and a set of nucleic acid molecules corresponding to the set of target nucleic acid sequences S120
facilitating (e.g., performing, etc.) single molecule sequencing with the set of tagged nucleic acid molecules S130
determining a comparison between a first set of sequence regions of a sequenced tagged nucleic acid molecule and a second set of sequence regions of a tagged nucleic acid molecule S132
stopping sequencing of a tagged nucleic acid molecule S134
limiting sequencing for specific target nucleic acid sequences S136
determining molecule counts (e.g., absolute molecule counts) based on the single molecule sequencing S140

FIG. 2

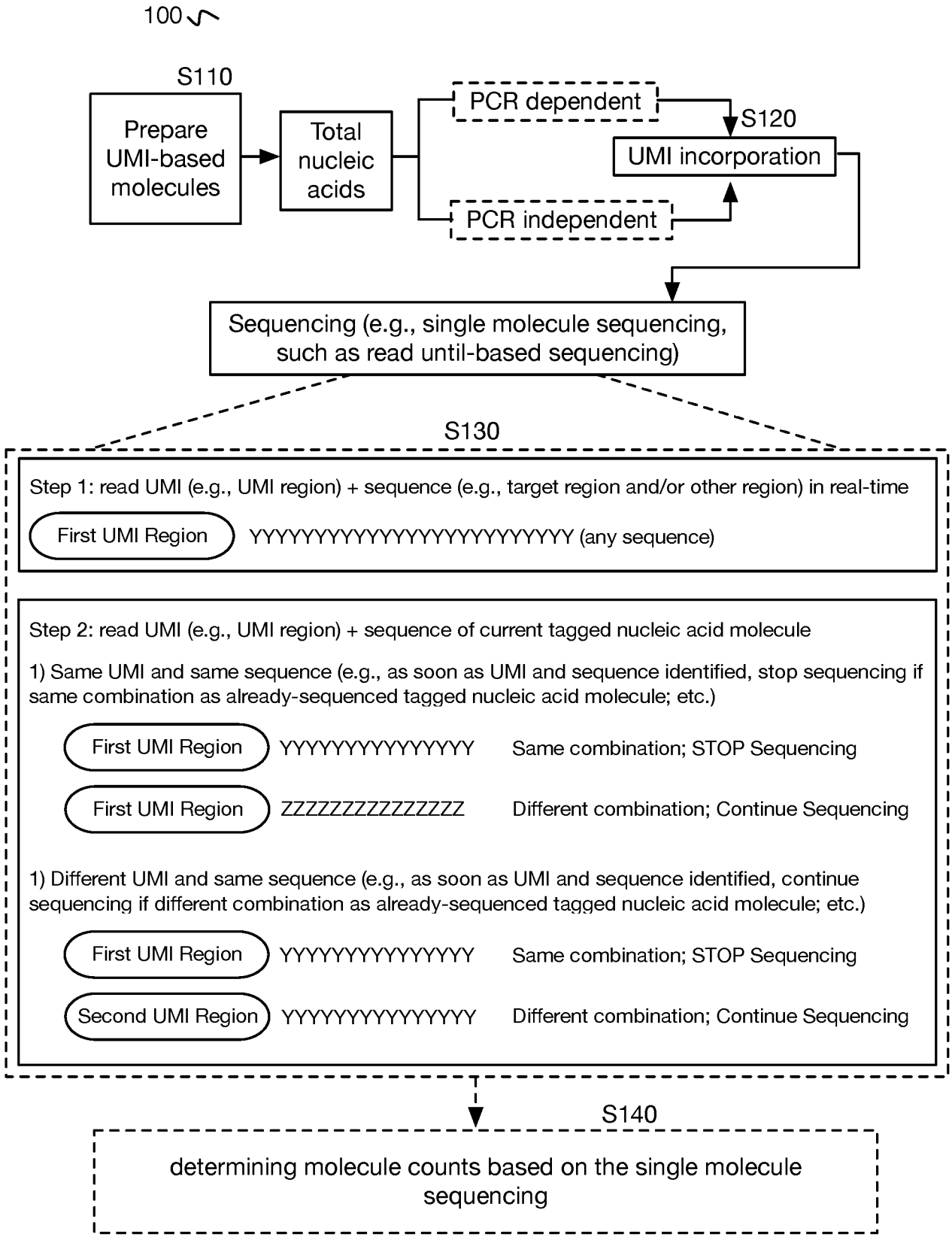

100
S110
Prepare UMI-based molecules
Total nucleic acids
PCR dependent
S120
UMI incorporation
PCR independent
Sequencing (e.g., single molecule sequencing, such as read until-based sequencing)
S130
Step 1: read UMI (e.g., UMI region) + sequence (e.g., target region and/or other region) in real-time
First UMI Region
YYYYYYYYYYYYYYYYYYYYYYYY (any sequence)
Step 2: read UMI (e.g., UMI region) + sequence of current tagged nucleic acid molecule
1) Same UMI and same sequence (e.g., as soon as UMI and sequence identified, stop sequencing if same combination as already-sequenced tagged nucleic acid molecule; etc.)
First UMI Region
YYYYYYYYYYYYYYY
Same combination; STOP Sequencing
First UMI Region
ZZZZZZZZZZZZZZZ
Different combination; Continue Sequencing
1) Different UMI and same sequence (e.g., as soon as UMI and sequence identified, continue sequencing if different combination as already-sequenced tagged nucleic acid molecule; etc.)
First UMI Region
YYYYYYYYYYYYYYY
Same combination; STOP Sequencing
Second UMI Region
YYYYYYYYYYYYYYY
Different combination; Continue Sequencing
S140
determining molecule counts based on the single molecule sequencing

FIG. 3