

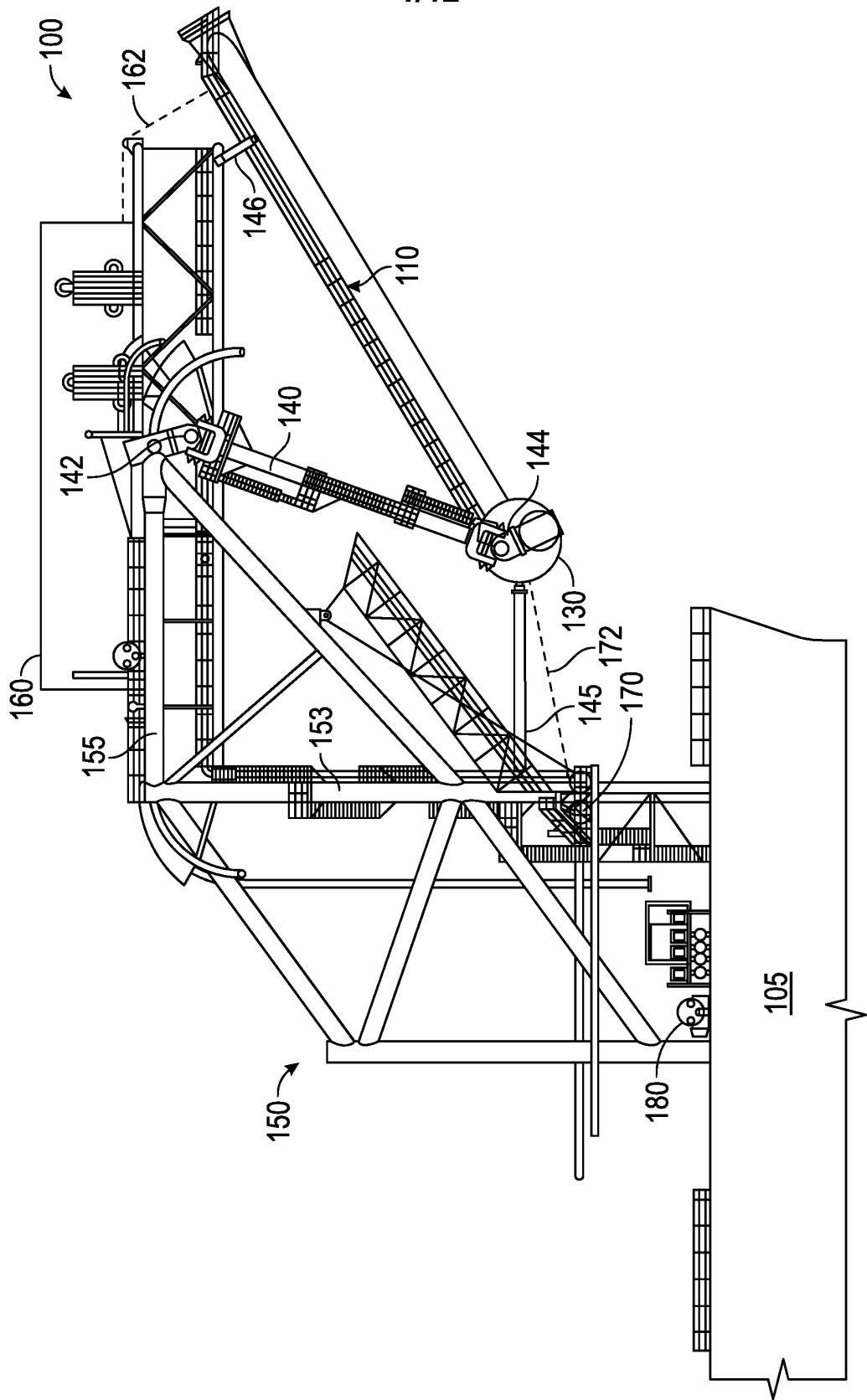


FIG. 1

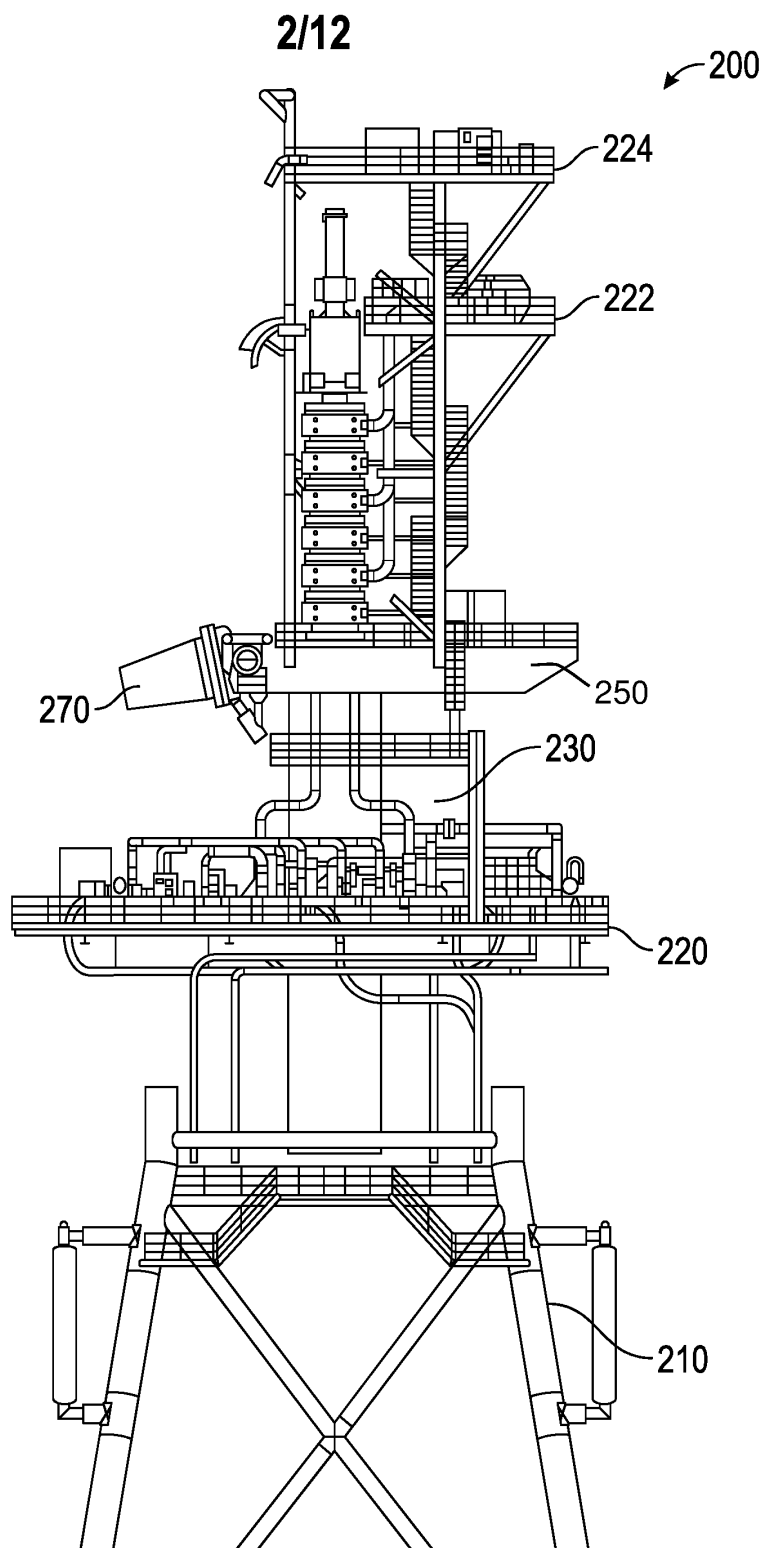


FIG. 2

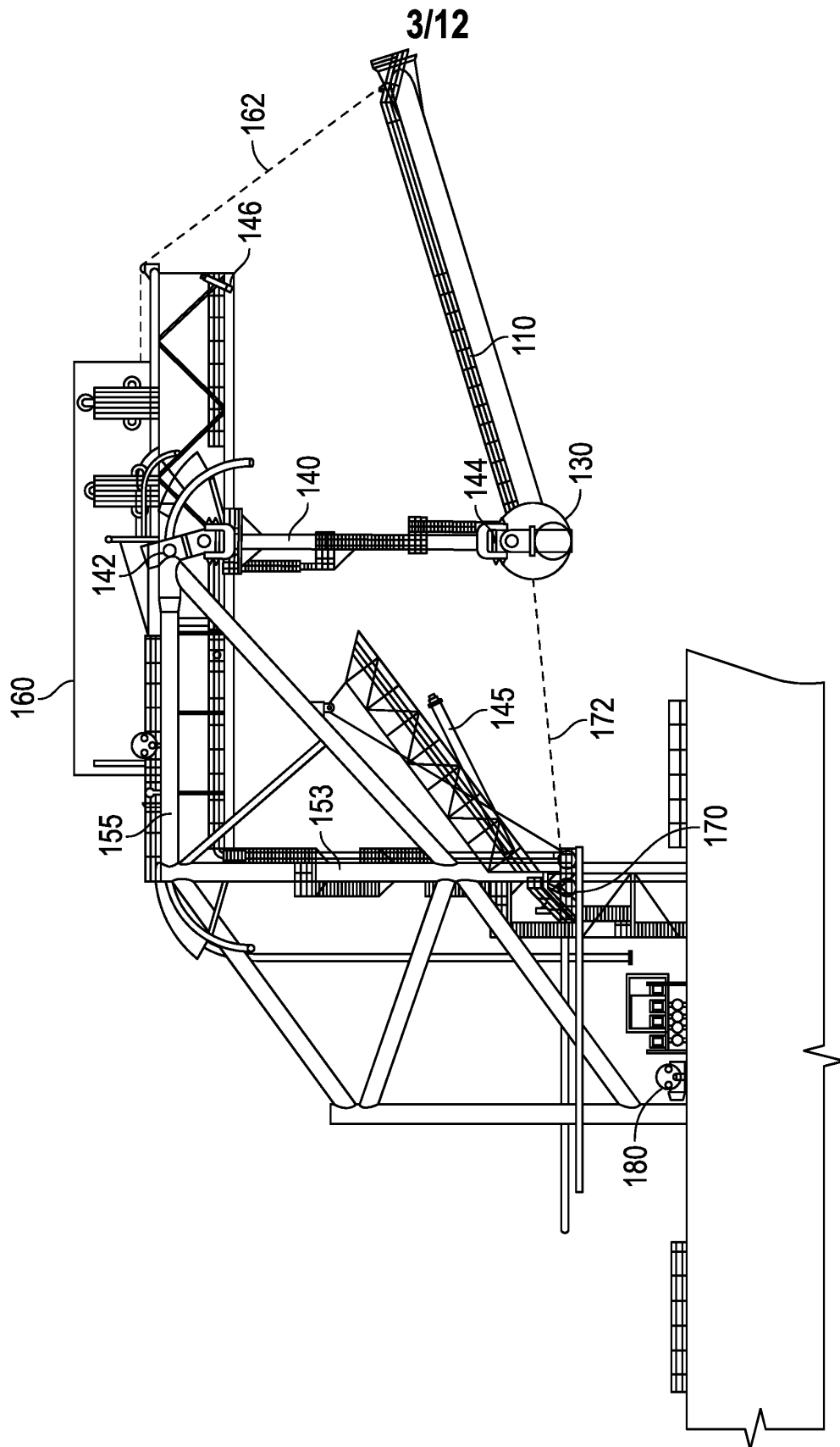


FIG. 3

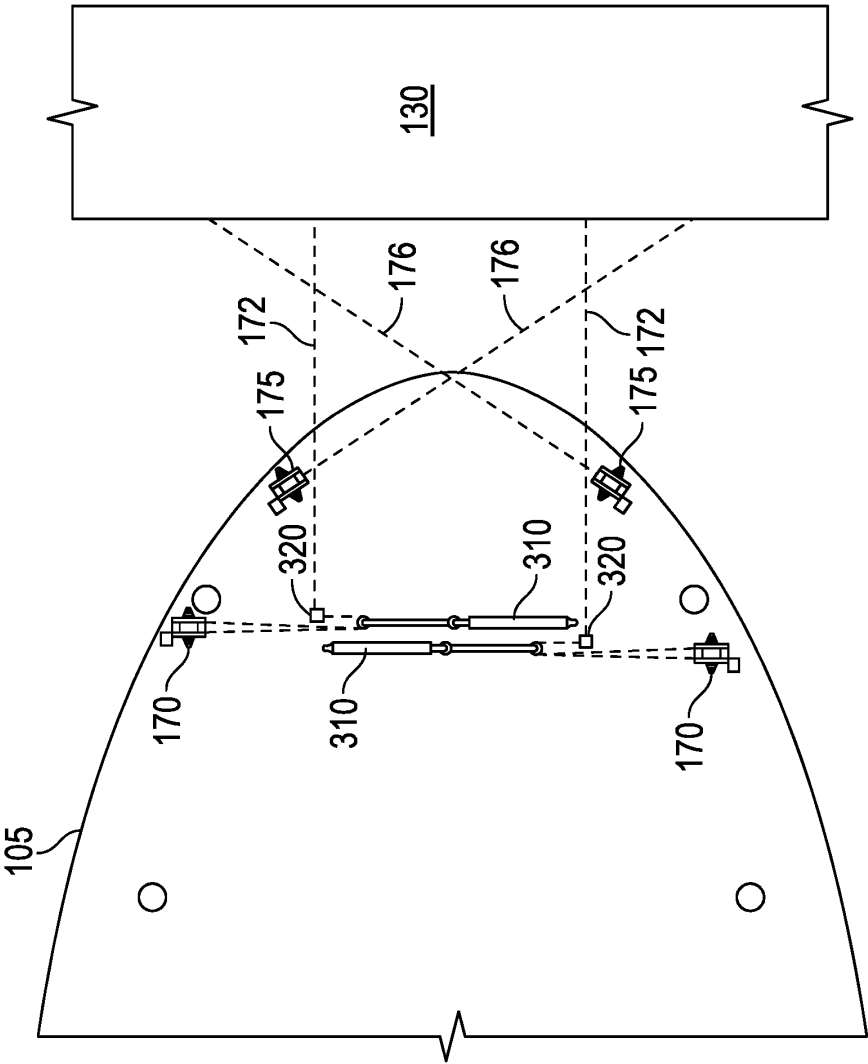
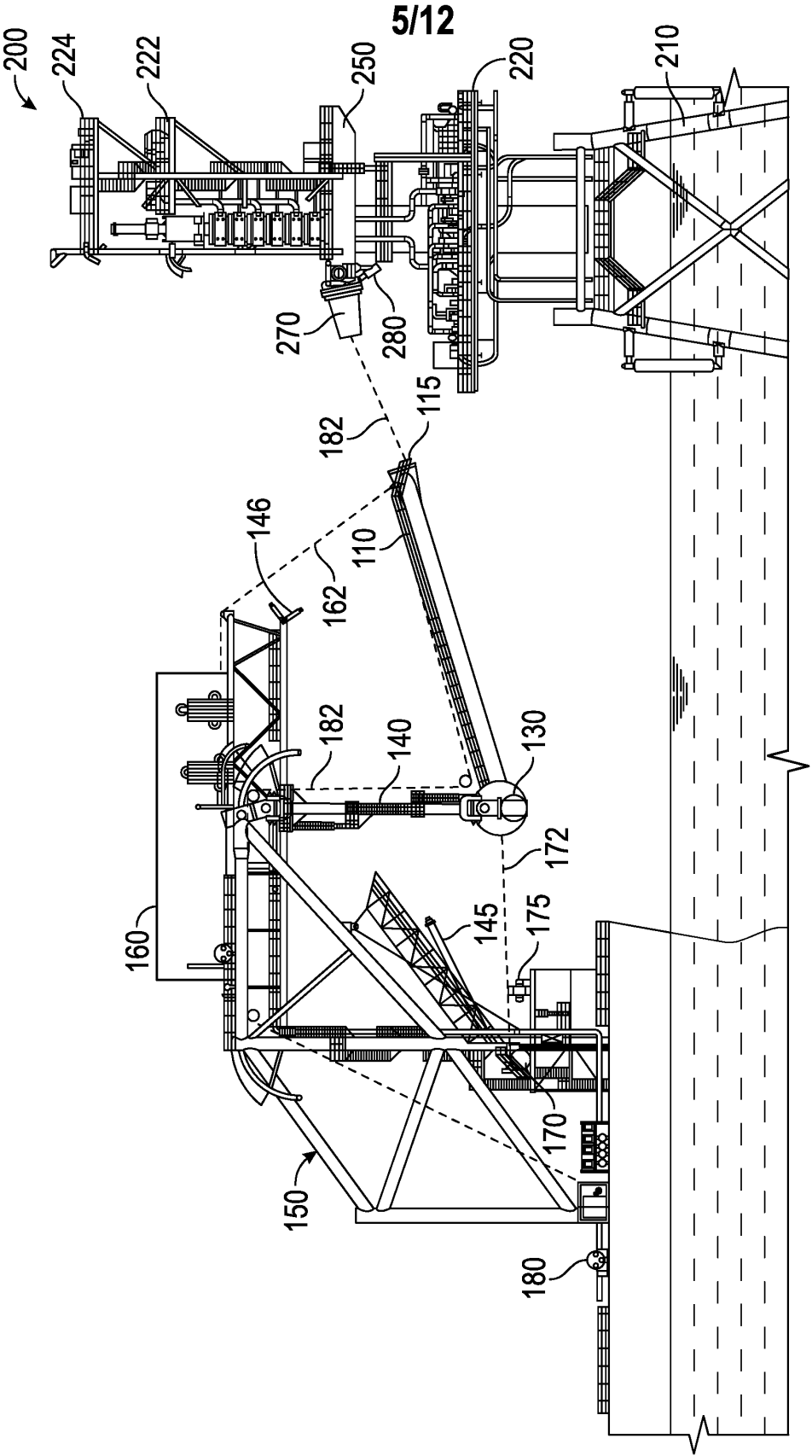


FIG. 3A



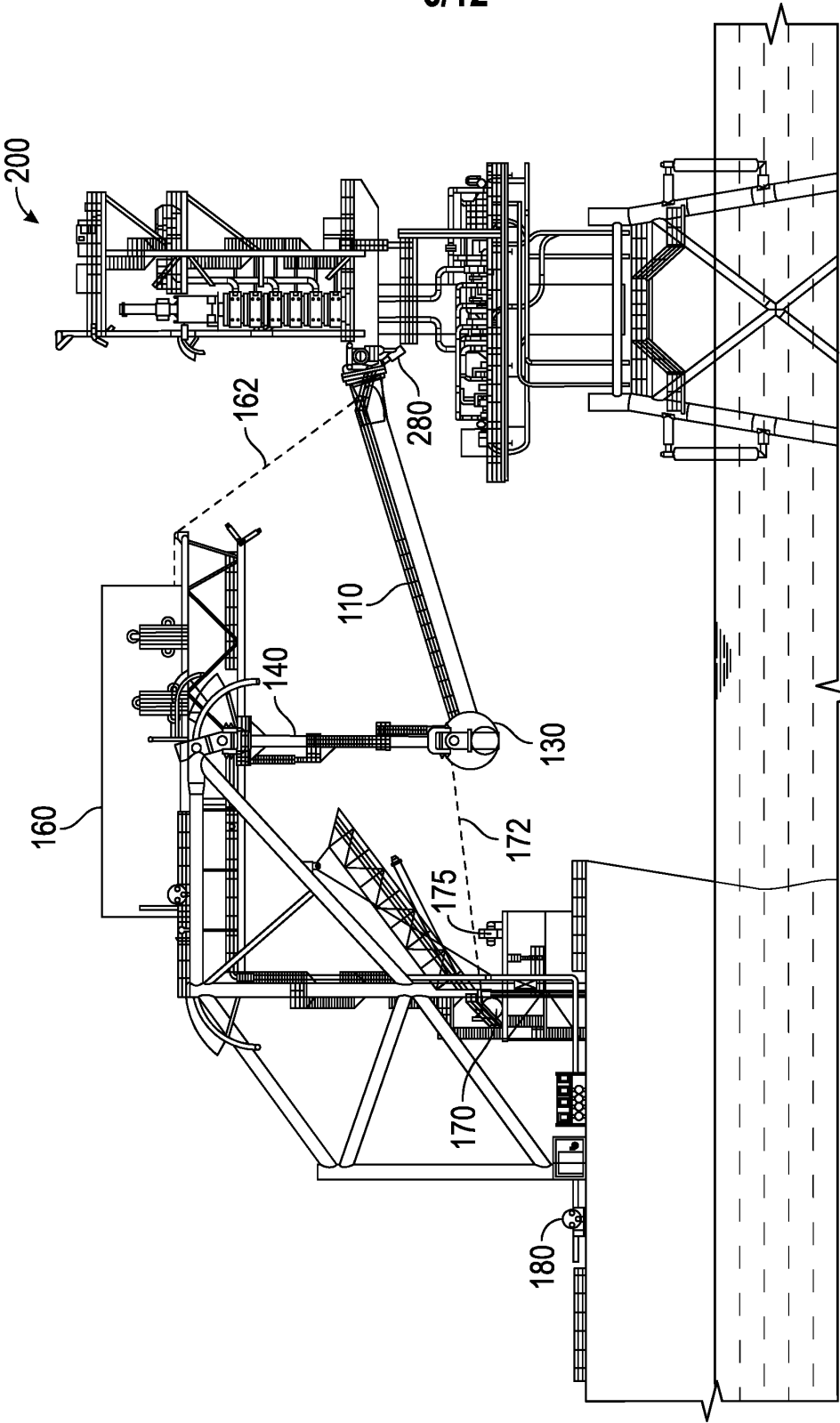
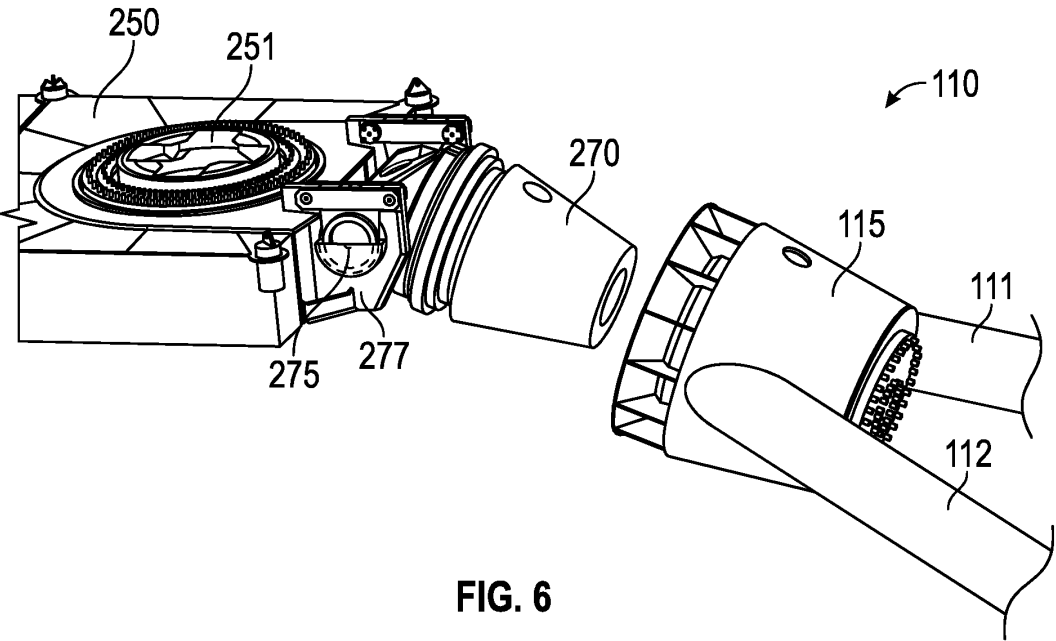


FIG. 5



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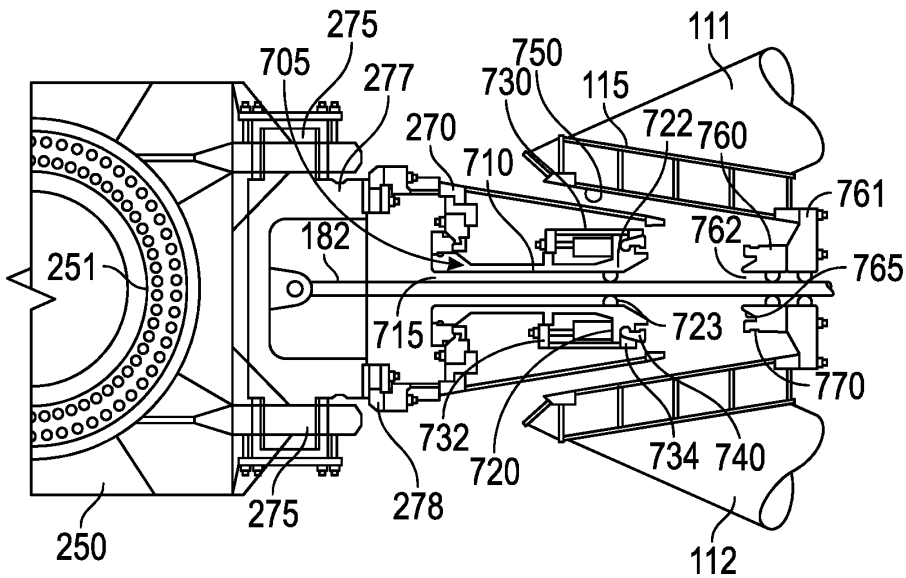


FIG. 7

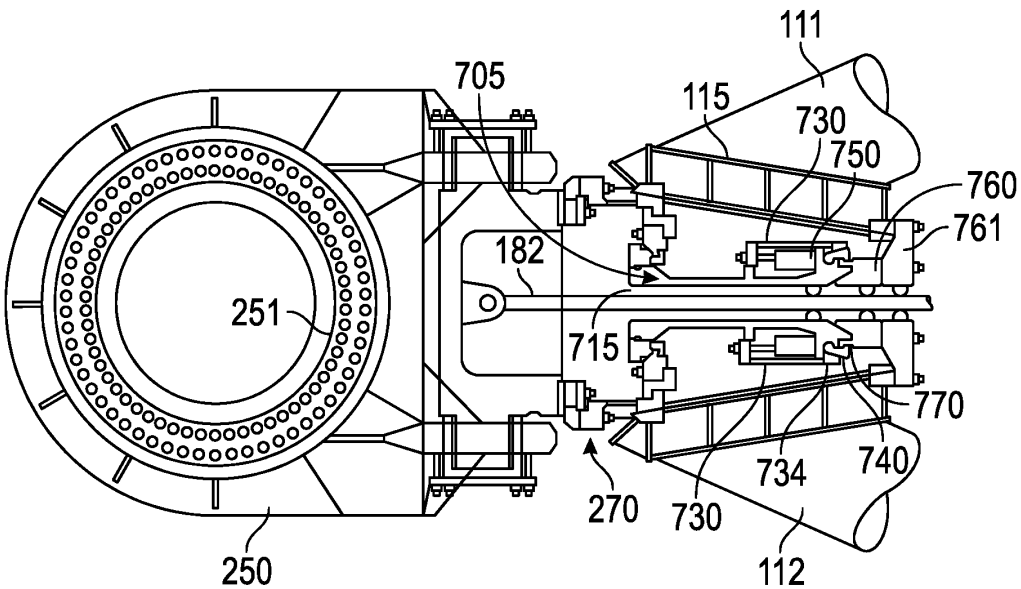


FIG. 8

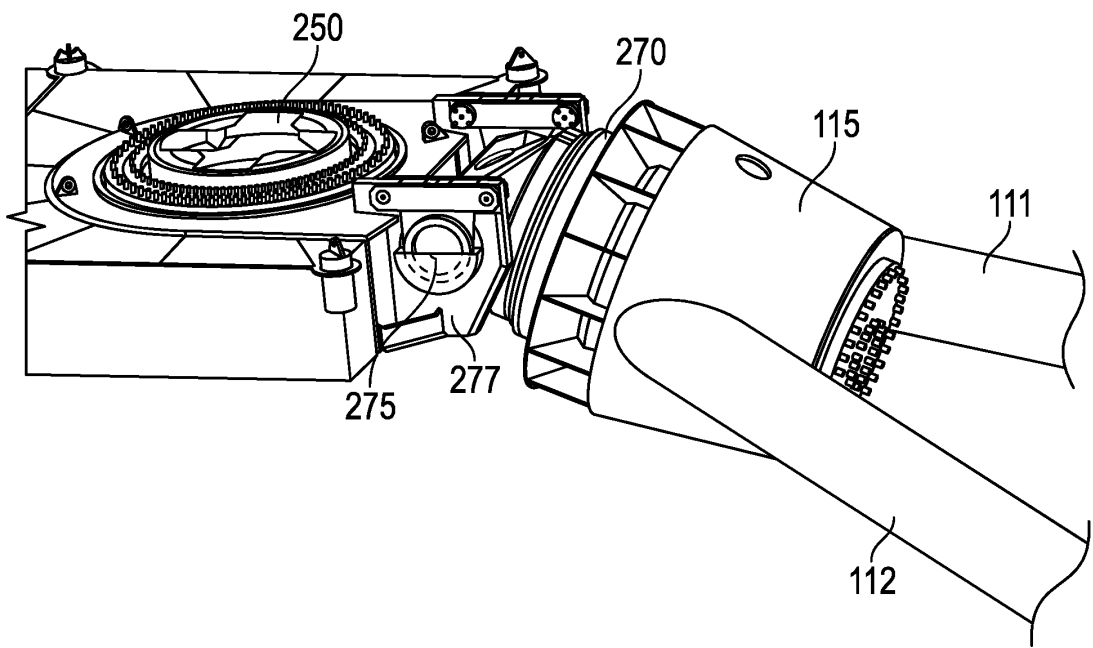


FIG. 9

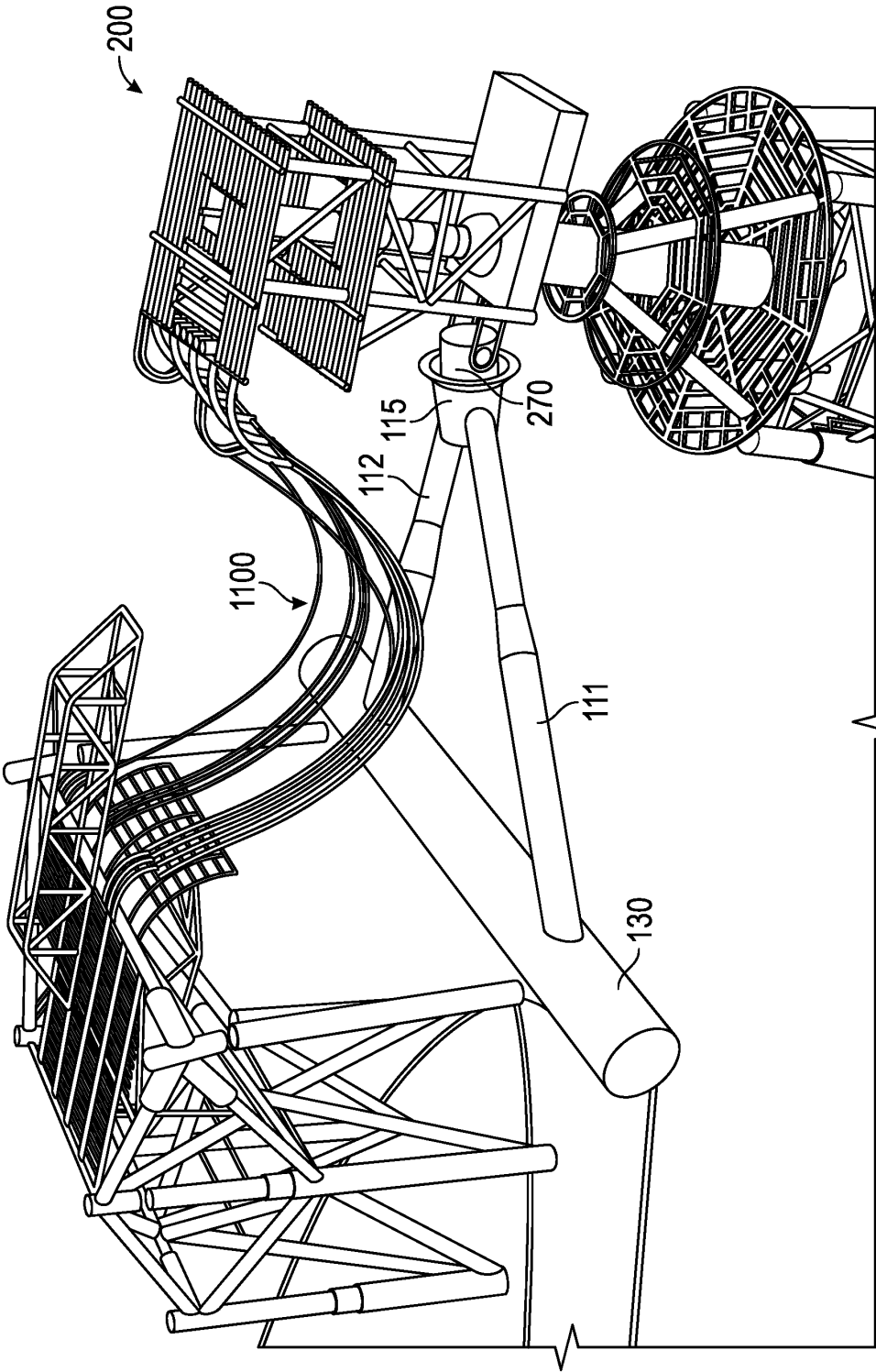


FIG. 10

Figure 11

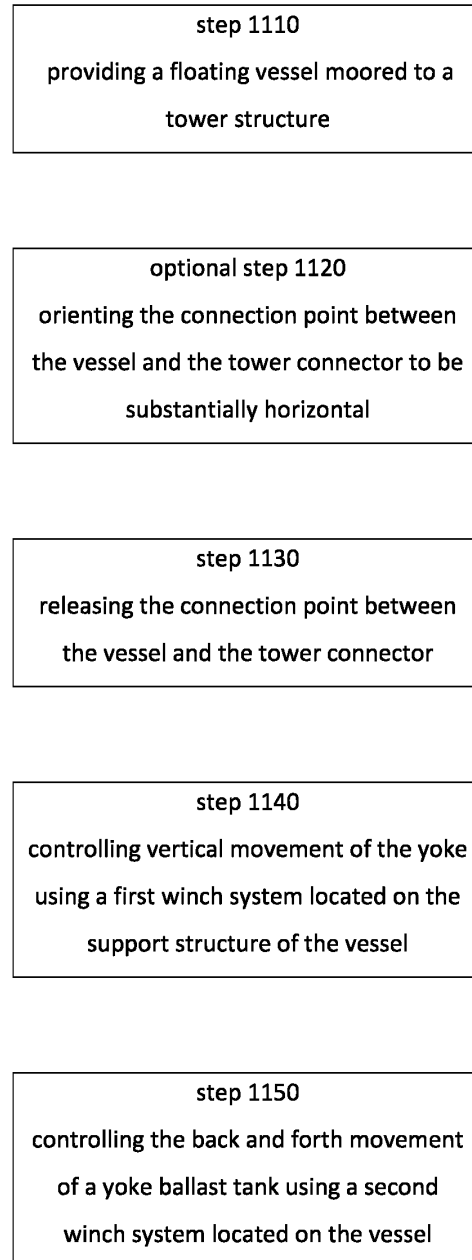


Figure 12

step 1210

providing a floating vessel moored to a tower structure, the floating vessel comprising: a support structure mounted on an upper deck thereof; one or more extension arms suspended from the support structure; a ballast tank connected to the one or more extension arms, the ballast tank configured to oscillate back and forth underneath the support structure; a yoke extending from and connected to the ballast tank at a first end thereof, the yoke comprising a tower connector disposed on a second end thereof; a first winch system located on the support structure, the first winch system connected to the yoke proximate the second end of the yoke via a first line or cable; and a second winch system connected to the ballast tank via a second line or cable, wherein the tower connector is attached to a yoke head connector disposed on the tower structure

optional step 1220

orienting the yoke head connector and the tower connector to be substantially horizontal

step 1230

applying stern thrust to the vessel, away from the tower structure

step 1240

releasing the tower connector from the yoke head connector

step 1250

controlling vertical movement of the yoke using the first winch system located on the support structure

step 1260

controlling the back and forth movement of the ballast tank using the second winch system