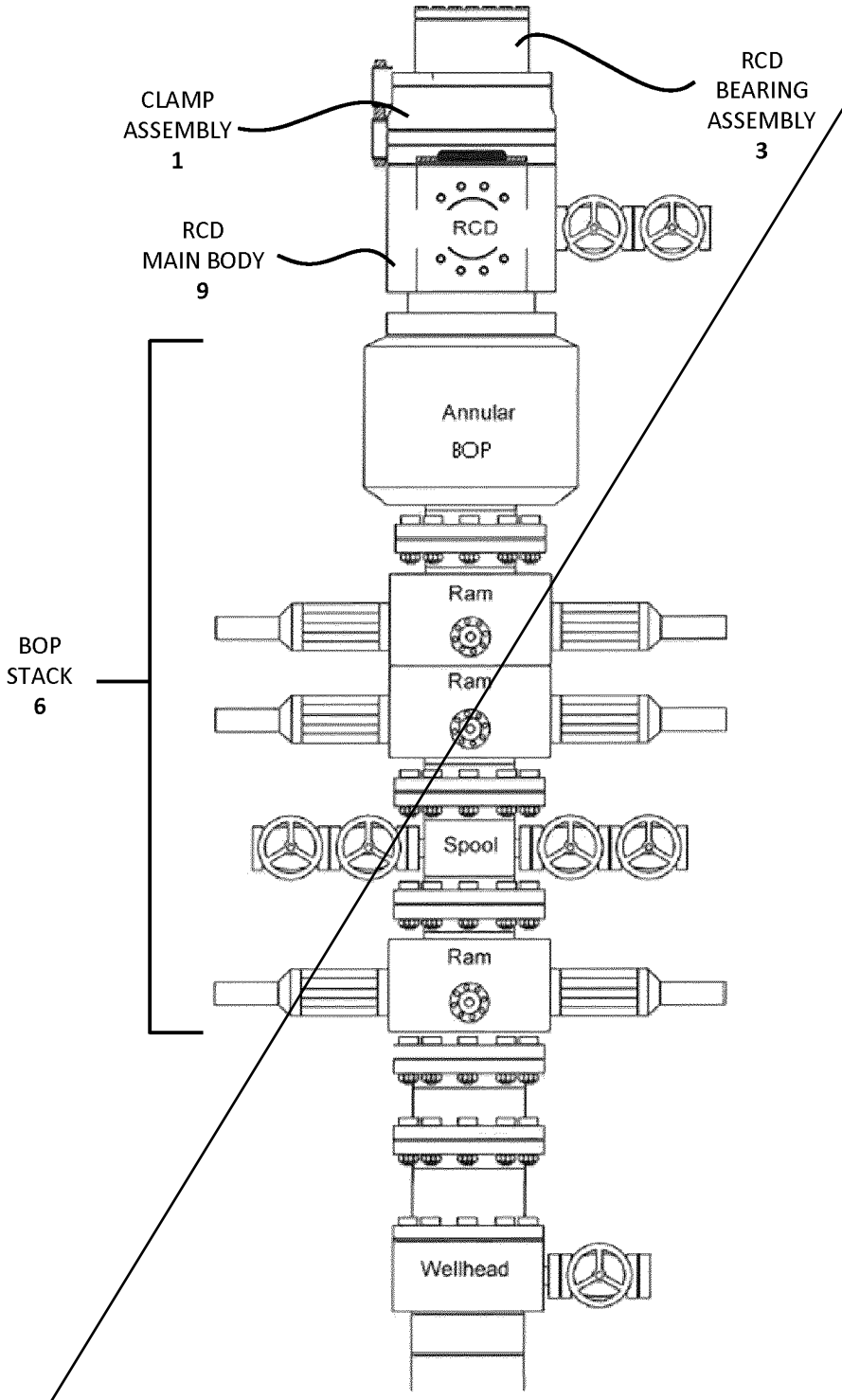


Fig. 1
(PRIOR ART)

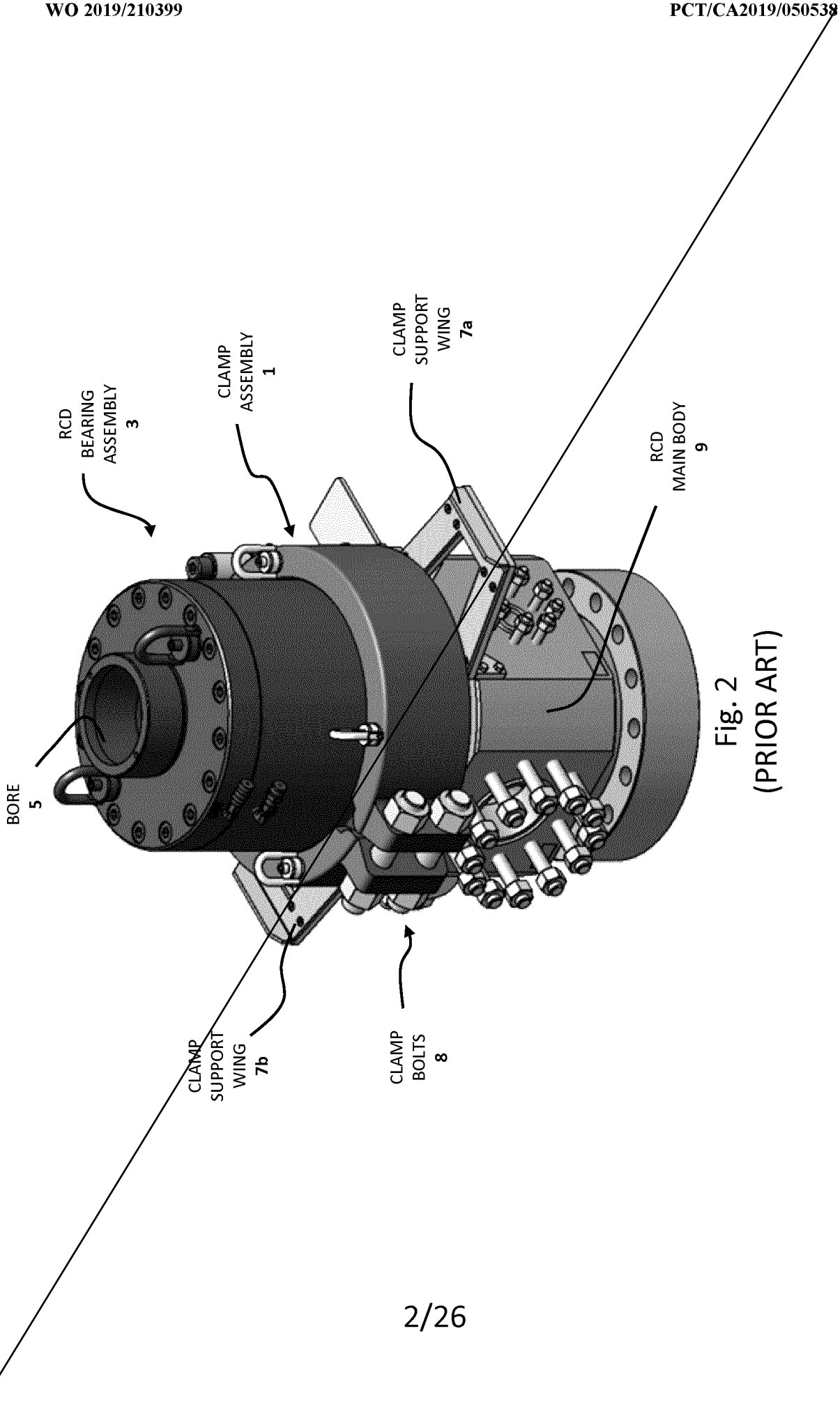


Fig. 2
(PRIOR ART)

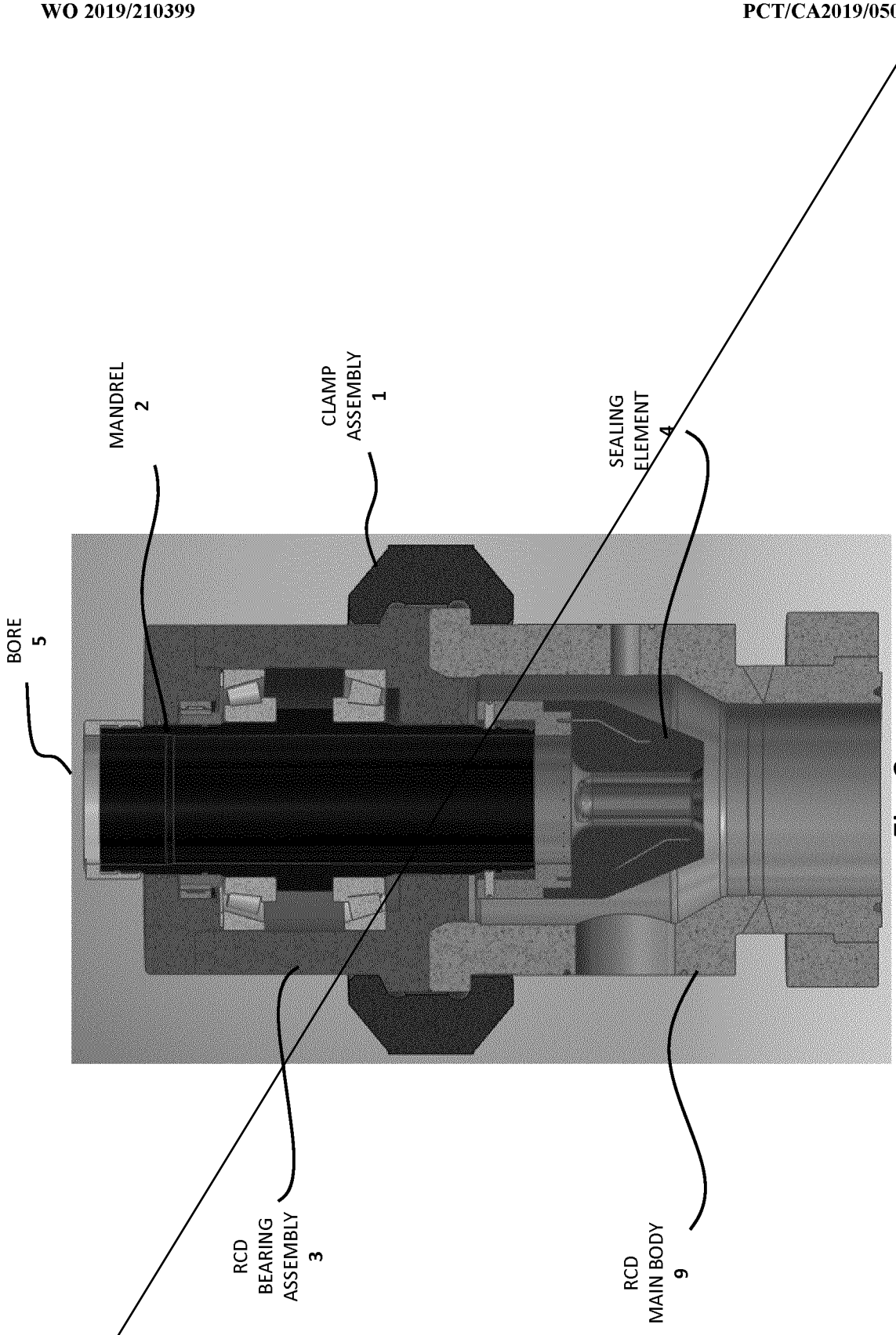


Fig. 3
(PRIOR ART)

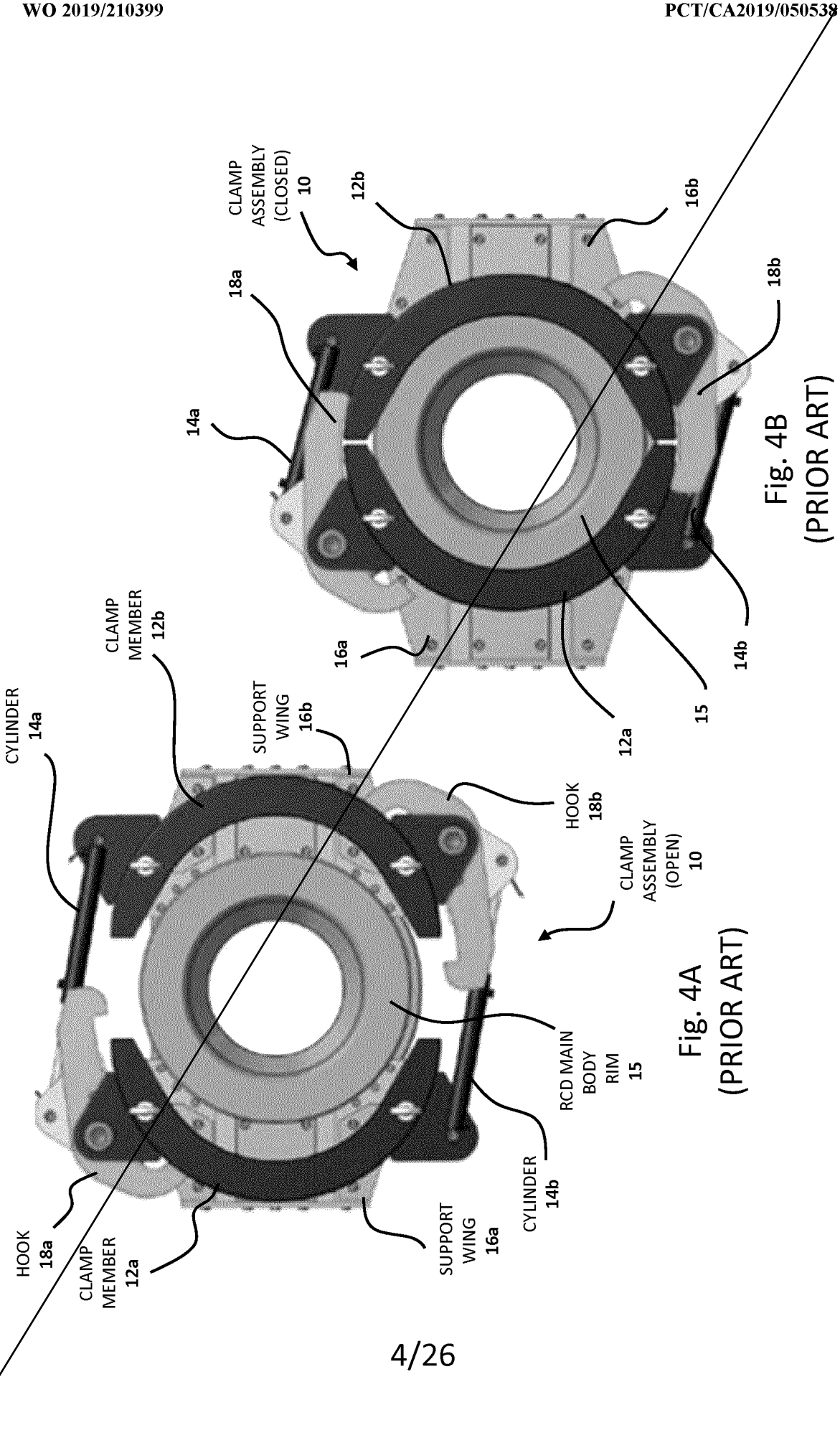


Fig. 4B
(PRIOR ART)

Fig. 4A
(PRIOR ART)

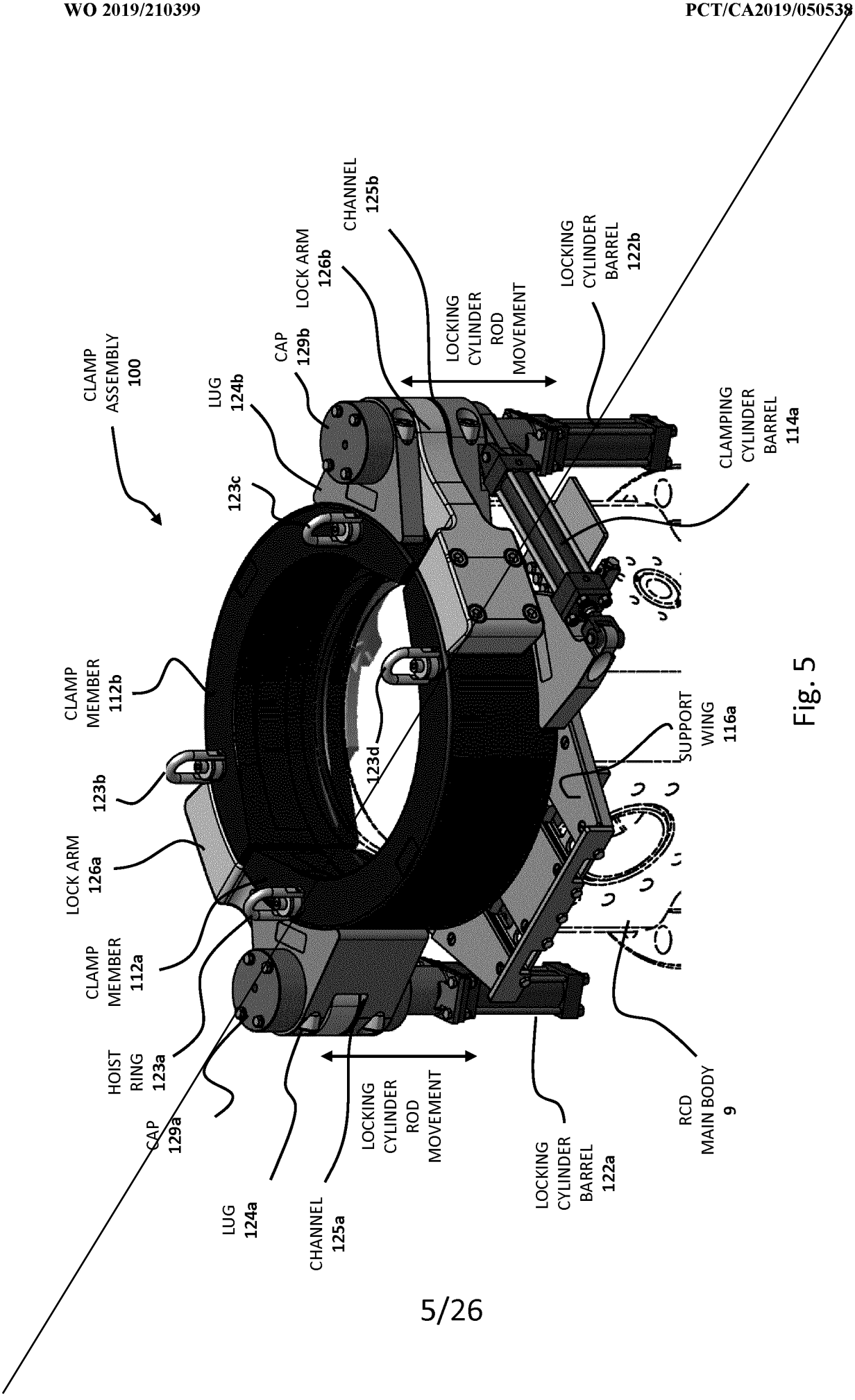

CLAMP ASSEMBLY 100
LUG 124b
CAP 129b
LOCK ARM 126b
CHANNEL 125b
LOCKING CYLINDER ROD MOVEMENT
LOCKING CYLINDER BARREL 122b
CLAMPING CYLINDER BARREL 114a
123c
CLAMP MEMBER 112b
123b
LOCK ARM 126a
CLAMP MEMBER 112a
HOIST RING 123a
CAP 129a
LUG 124a
CHANNEL 125a
LOCKING CYLINDER ROD MOVEMENT
LOCKING CYLINDER BARREL 122a
123d
SUPPORT WING 116a
RCD MAIN BODY 9

Fig. 5

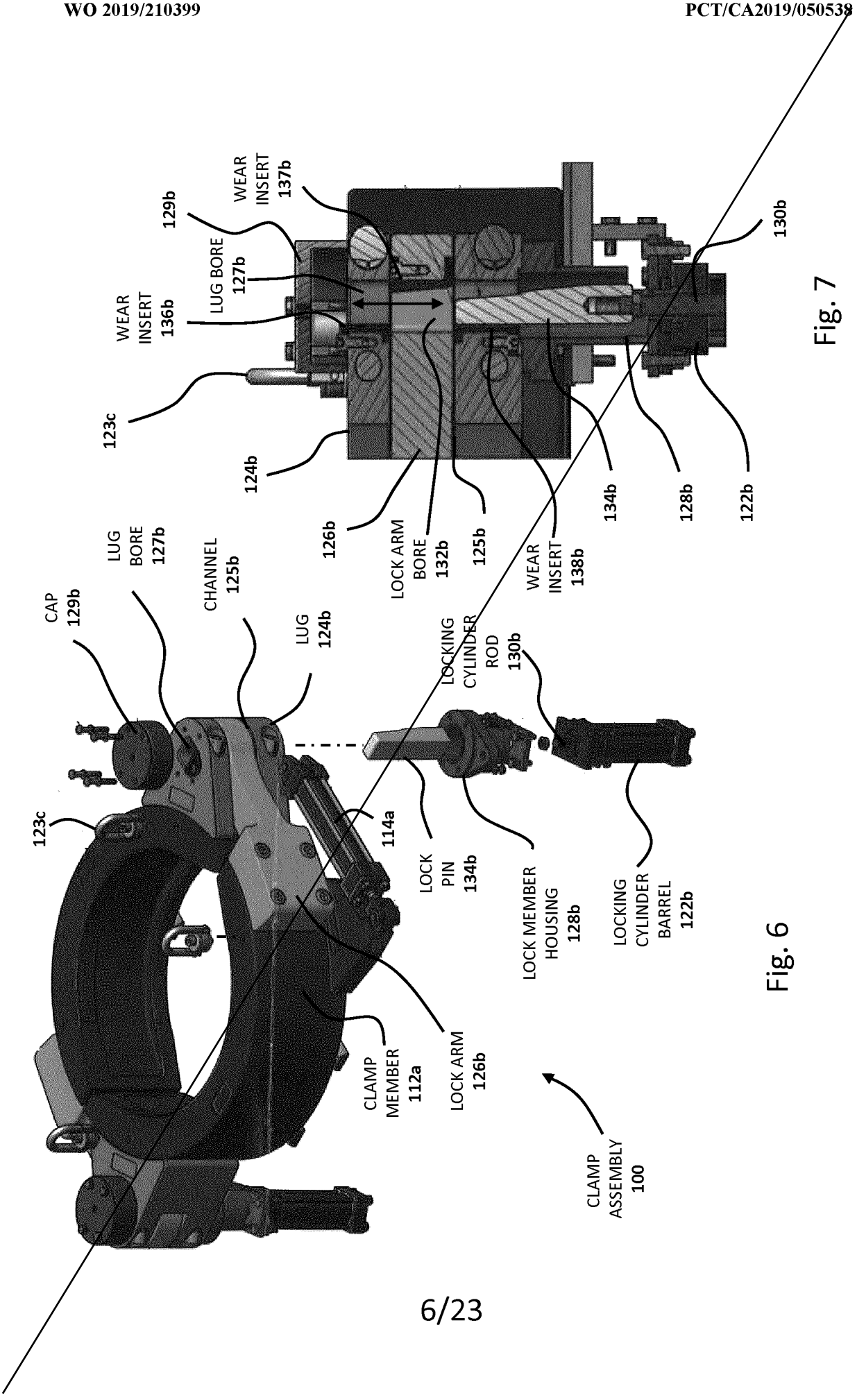

CLAMP ASSEMBLY 100
CLAMP MEMBER 112a
LOCK ARM 126b
123c
114a
CAP 129b
LUG BORE 127b
CHANNEL 125b
LUG 124b
LOCK PIN 134b
LOCKING CYLINDER ROD 130b
LOCK MEMBER HOUSING 128b
LOCKING CYLINDER BARREL 122b
WEAR INSERT 138b
LOCK ARM BORE 132b
126b
125b
134b
128b
122b
130b
124b
123c
WEAR INSERT 136b
LUG BORE 127b
129b
WEAR INSERT 137b

Fig. 6

Fig. 7

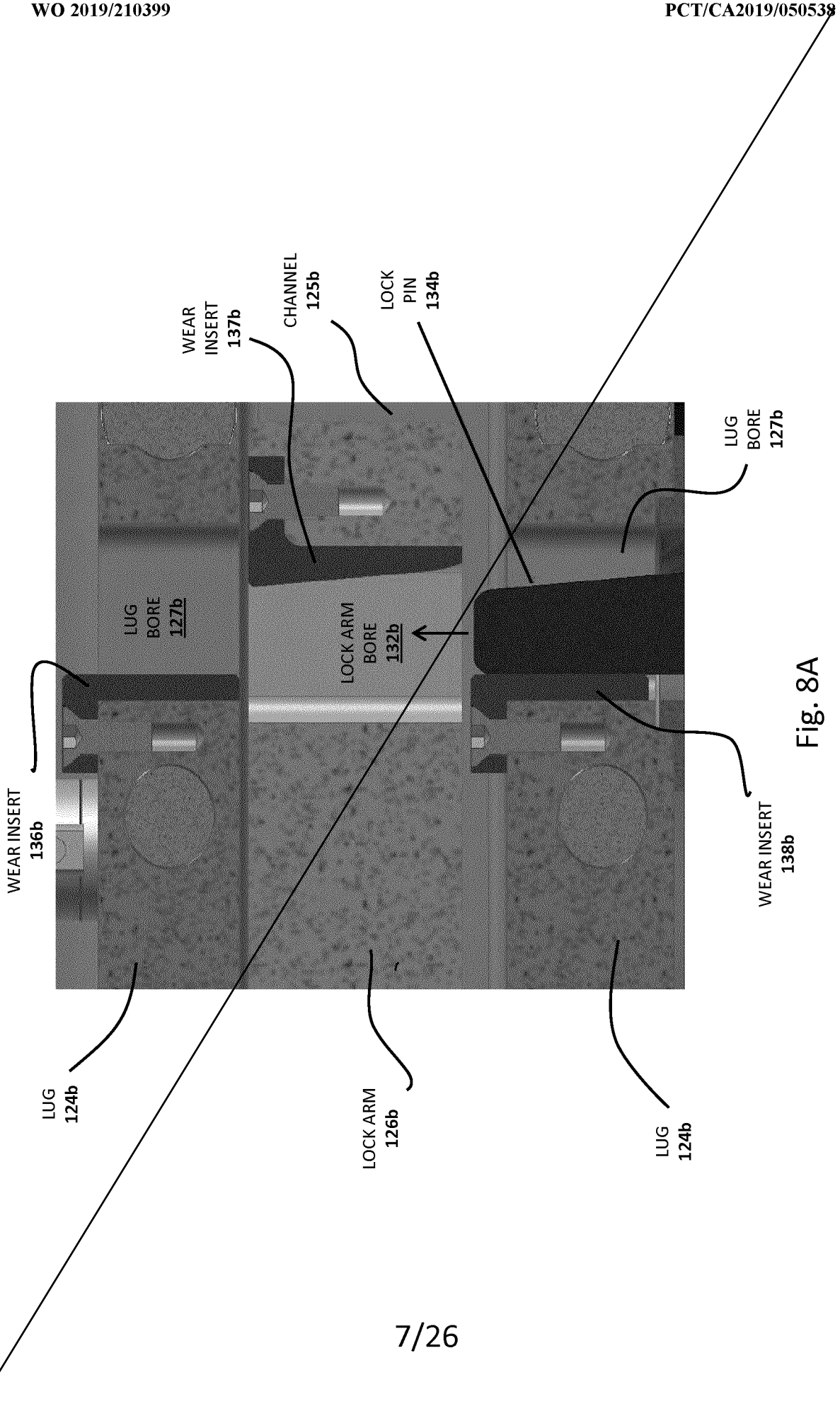

WEAR INSERT 137b
CHANNEL 125b
LOCK PIN 134b
LUG BORE 127b
LUG BORE 127b
LOCK ARM BORE 132b
WEAR INSERT 136b
WEAR INSERT 138b
LUG 124b
LOCK ARM 126b
LUG 124b

Fig. 8A

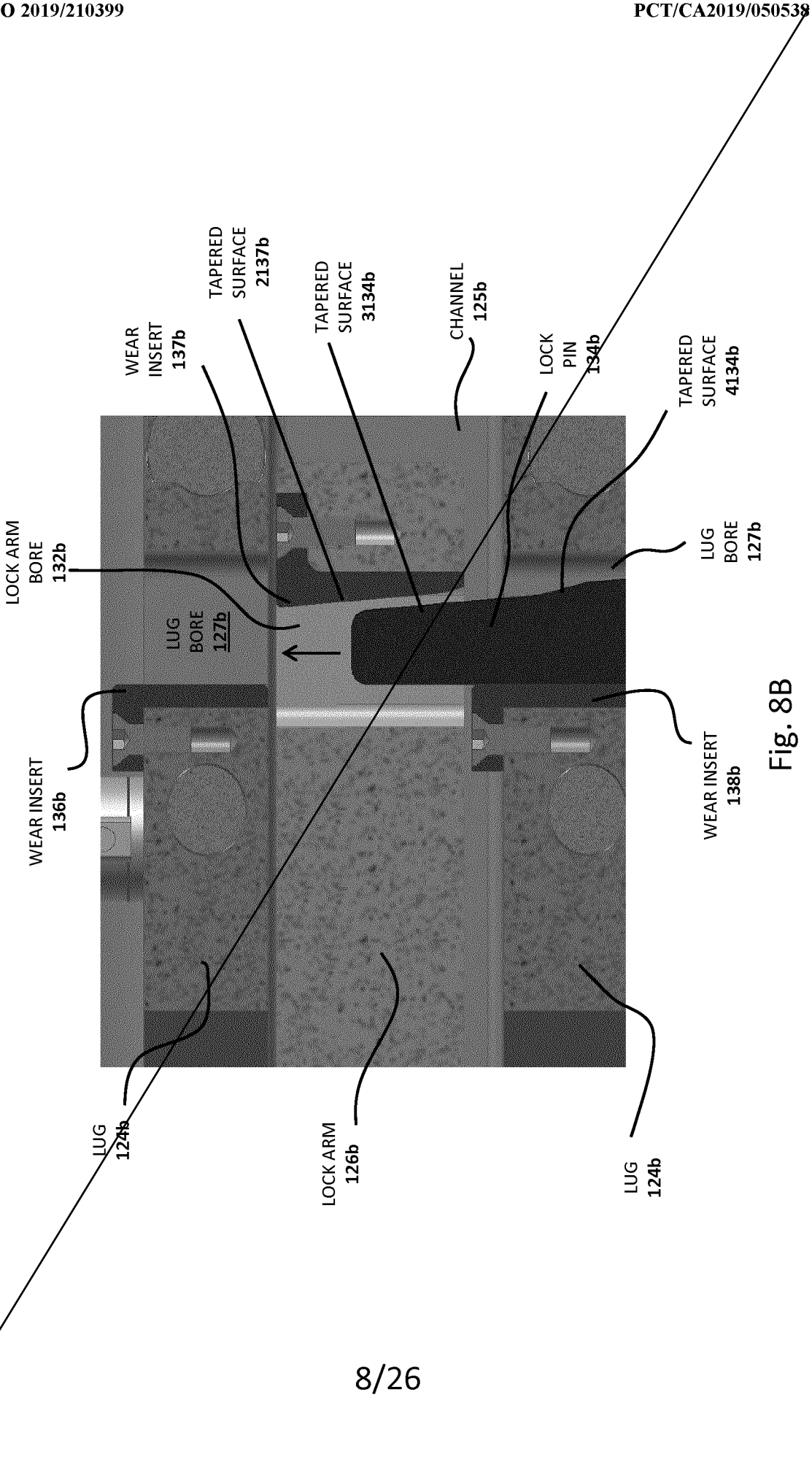

WEAR INSERT 137b
TAPERED SURFACE 2137b
TAPERED SURFACE 3134b
CHANNEL 125b
LOCK PIN 134b
TAPERED SURFACE 4134b
LOCK ARM BORE 132b
LUG BORE 127b
LUG BORE 127b
WEAR INSERT 136b
WEAR INSERT 138b
LUG 124b
LOCK ARM 126b
LUG 124b

Fig. 8B

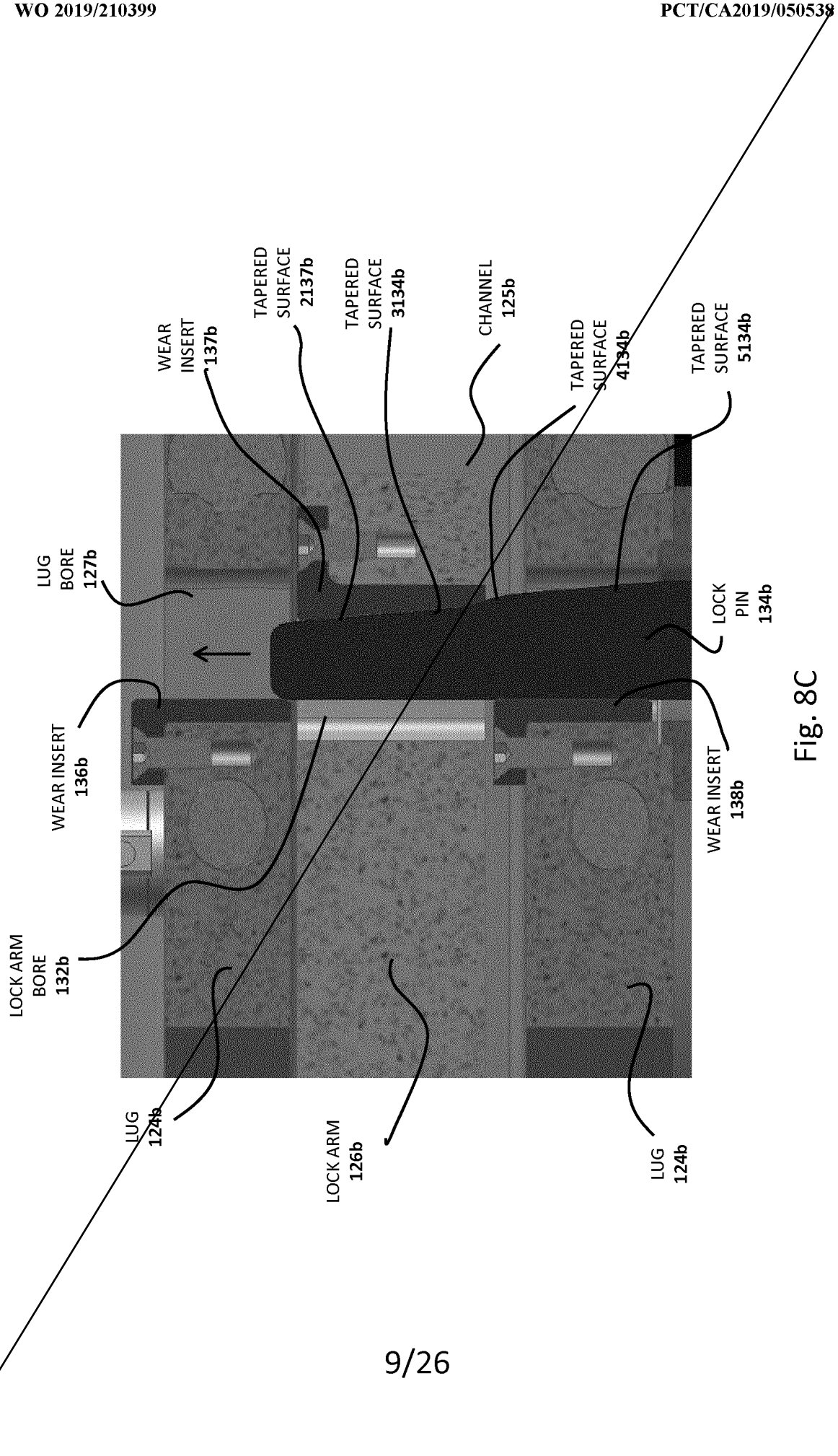

WEAR INSERT 137b
TAPERED SURFACE 2137b
TAPERED SURFACE 3134b
CHANNEL 125b
TAPERED SURFACE 4134b
TAPERED SURFACE 5134b
LUG BORE 127b
LOCK PIN 134b
WEAR INSERT 136b
WEAR INSERT 138b
LOCK ARM BORE 132b
LUG 124b
LOCK ARM 126b
LUG 124b

Fig. 8C

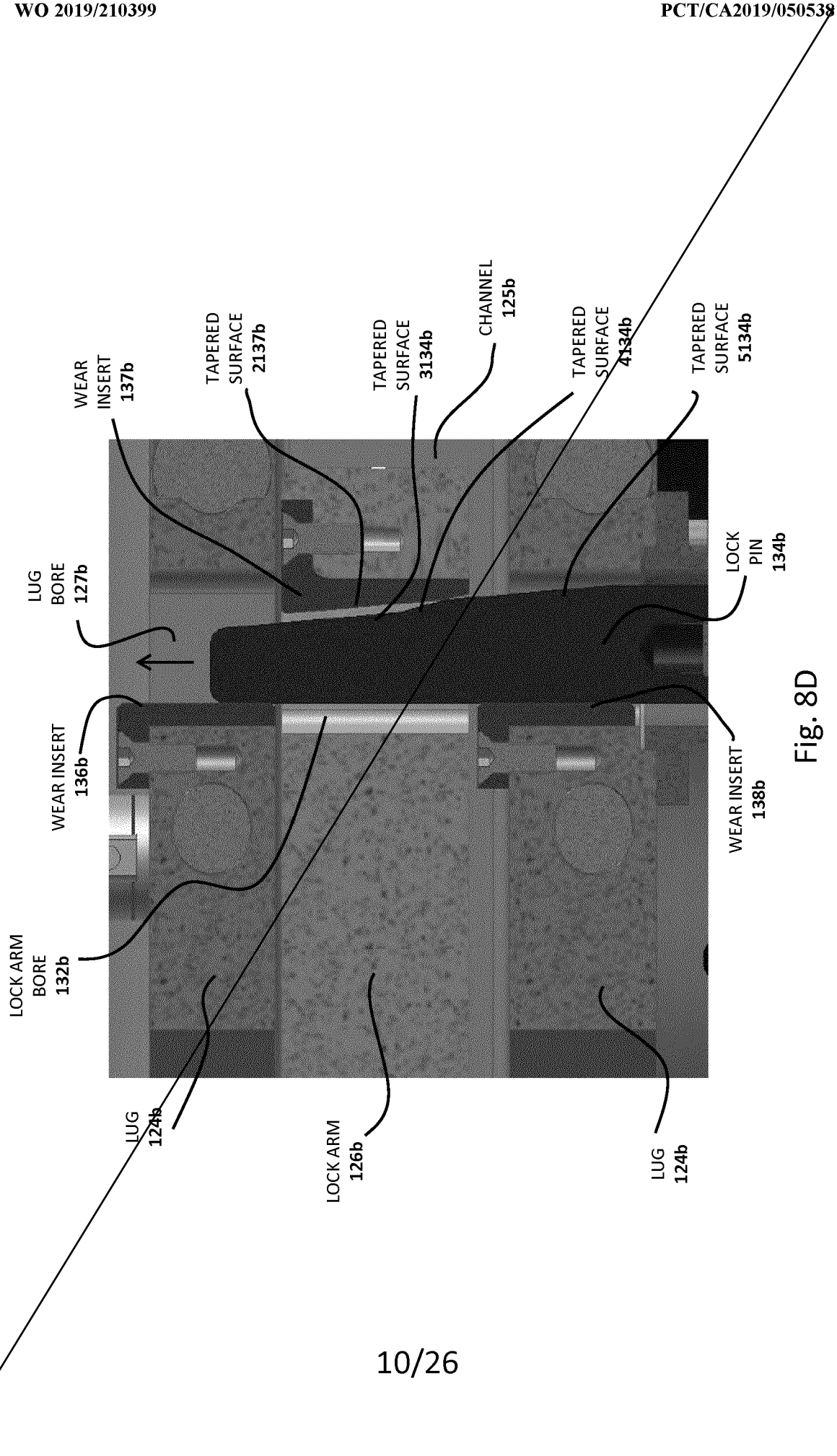

WEAR INSERT 137b
TAPERED SURFACE 2137b
TAPERED SURFACE 3134b
CHANNEL 125b
TAPERED SURFACE 4134b
TAPERED SURFACE 5134b
LUG BORE 127b
LOCK PIN 134b
WEAR INSERT 136b
WEAR INSERT 138b
LOCK ARM BORE 132b
LUG 124b
LOCK ARM 126b
LUG 124b

Fig. 8D

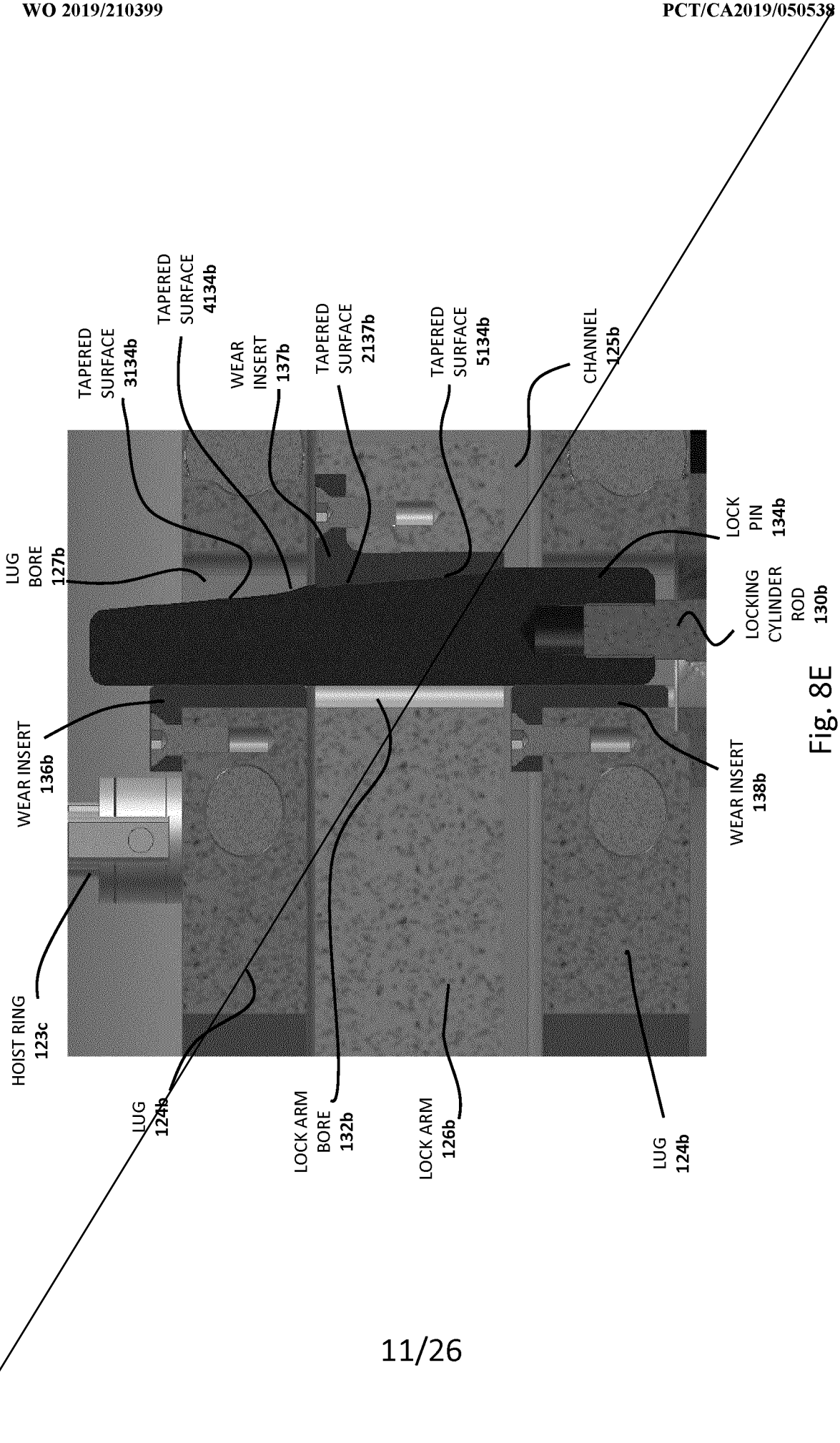

TAPERED SURFACE 3134b
TAPERED SURFACE 4134b
WEAR INSERT 137b
TAPERED SURFACE 2137b
TAPERED SURFACE 5134b
CHANNEL 125b
LUG BORE 127b
LOCK PIN 134b
LOCKING CYLINDER ROD 130b
WEAR INSERT 136b
WEAR INSERT 138b
HOIST RING 123c
LUG 124b
LOCK ARM BORE 132b
LOCK ARM 126b
LUG 124b

Fig. 8E

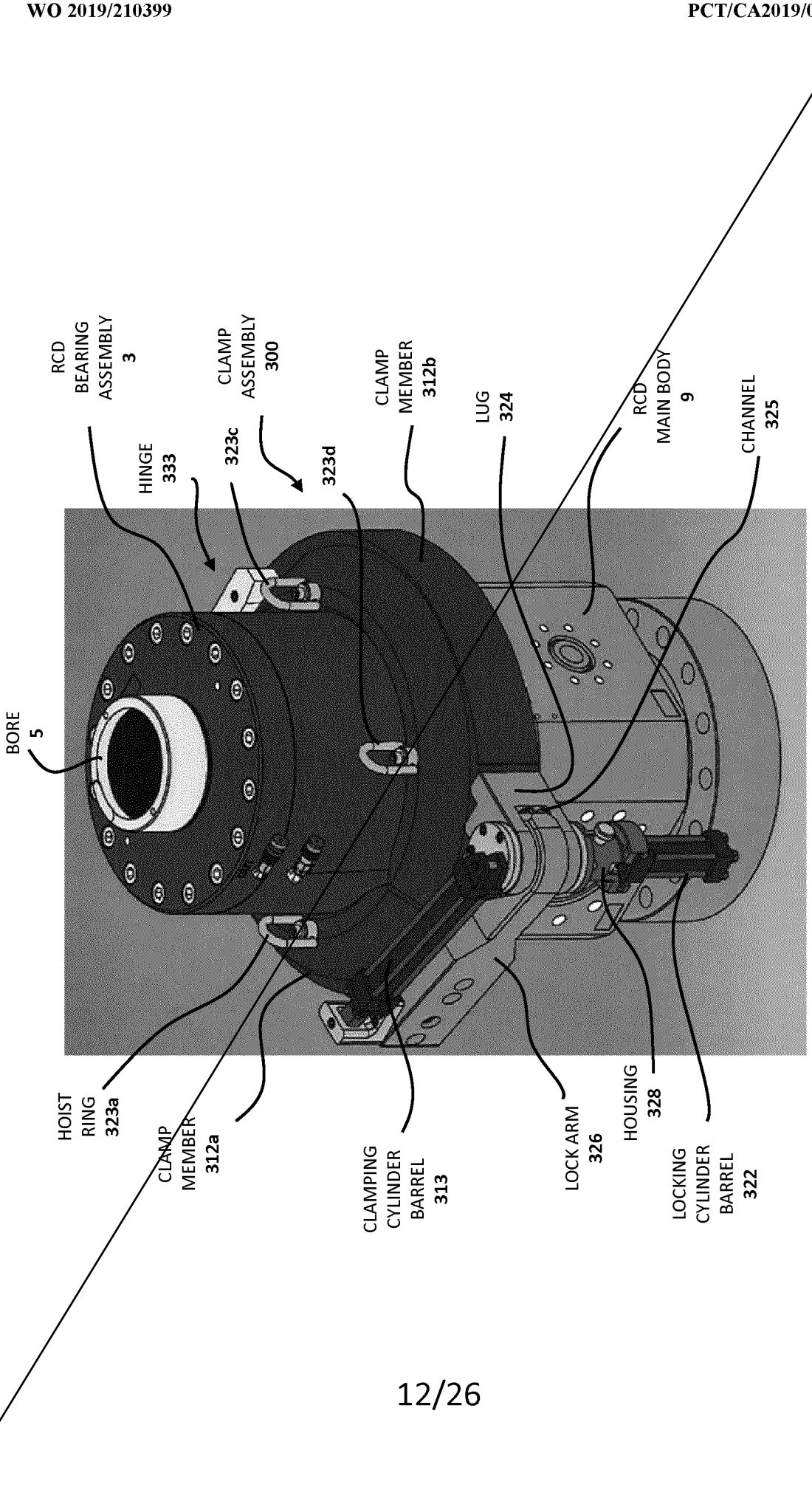

RCD BEARING ASSEMBLY 3
HINGE 333
CLAMP ASSEMBLY 300
323c
323d
CLAMP MEMBER 312b
LUG 324
RCD MAIN BODY 9
CHANNEL 325
BORE 5
HOIST RING 323a
CLAMP MEMBER 312a
CLAMPING CYLINDER BARREL 313
LOCK ARM 326
HOUSING 328
LOCKING CYLINDER BARREL 322

Fig. 9A

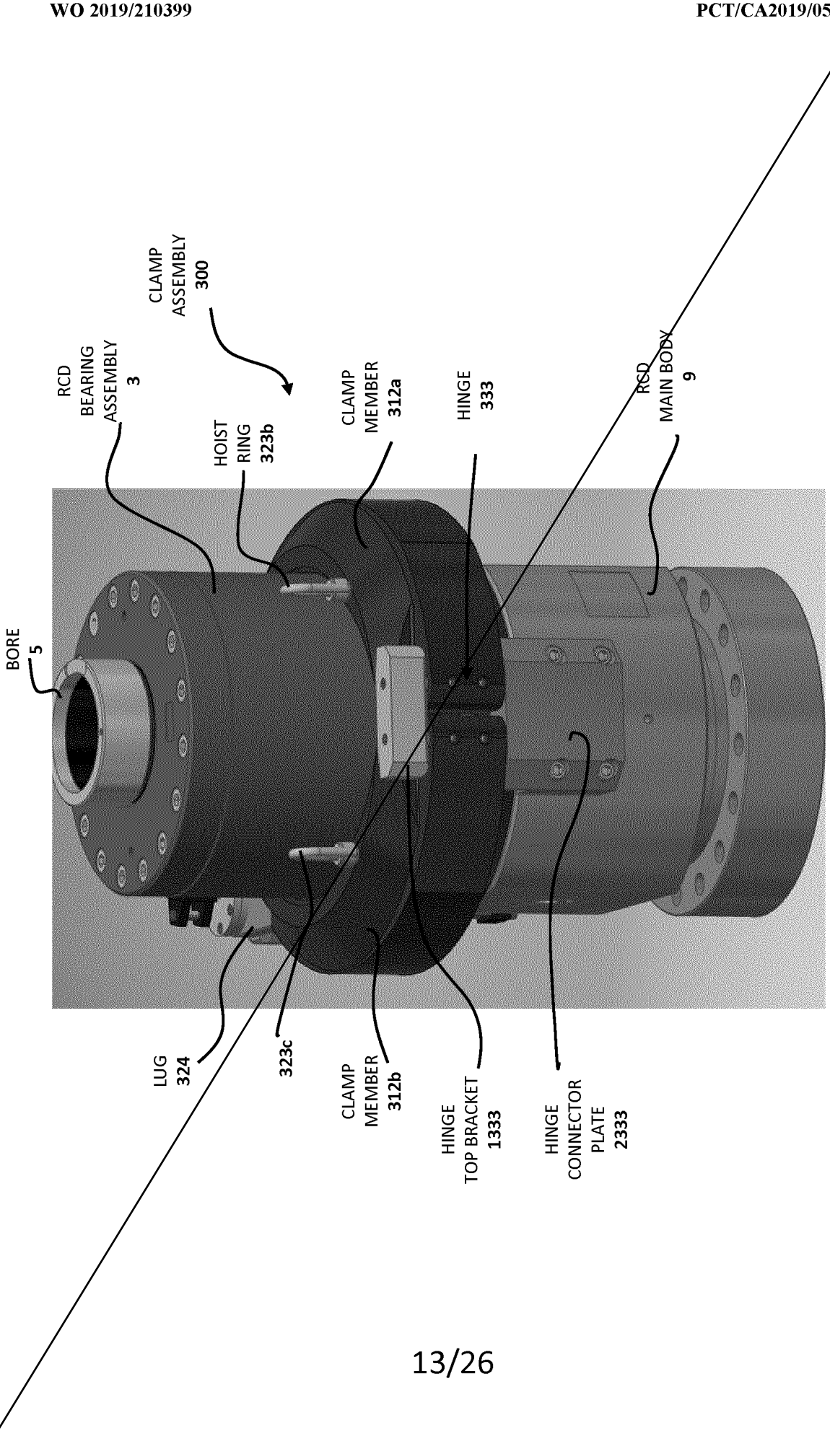

BORE
5
RCD
BEARING
ASSEMBLY
3
CLAMP
ASSEMBLY
300
HOIST
RING
323b
CLAMP
MEMBER
312a
HINGE
333
RCD
MAIN BODY
9
LUG
324
323c
CLAMP
MEMBER
312b
HINGE
TOP BRACKET
1333
HINGE
CONNECTOR
PLATE
2333

Fig. 9B

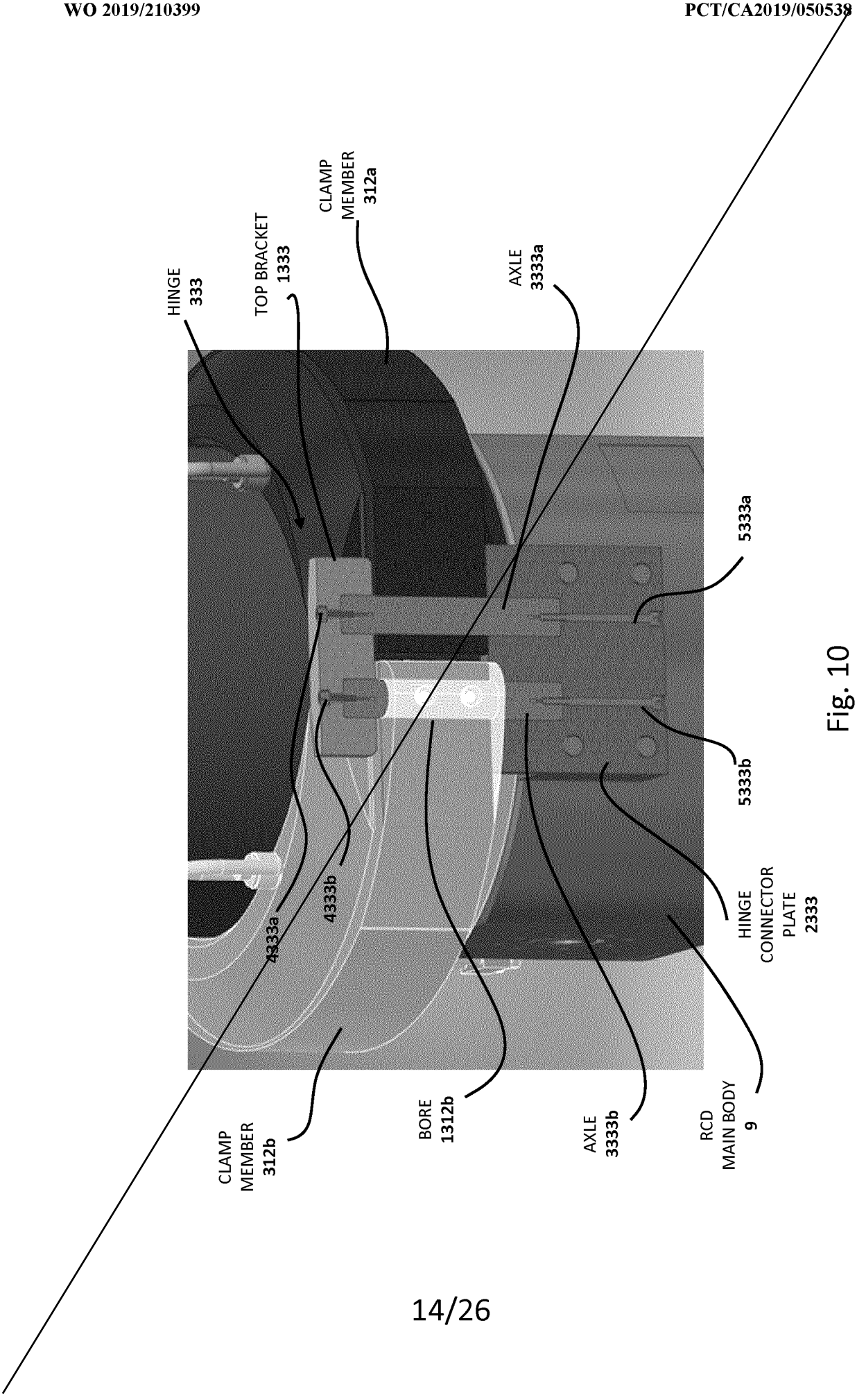

HINGE
333
TOP BRACKET
1333
CLAMP
MEMBER
312a
AXLE
3333a
5333a
5333b
HINGE
CONNECTOR
PLATE
2333
RCD
MAIN BODY
9
AXLE
3333b
BORE
1312b
CLAMP
MEMBER
312b
4333a
4333b

Fig. 10

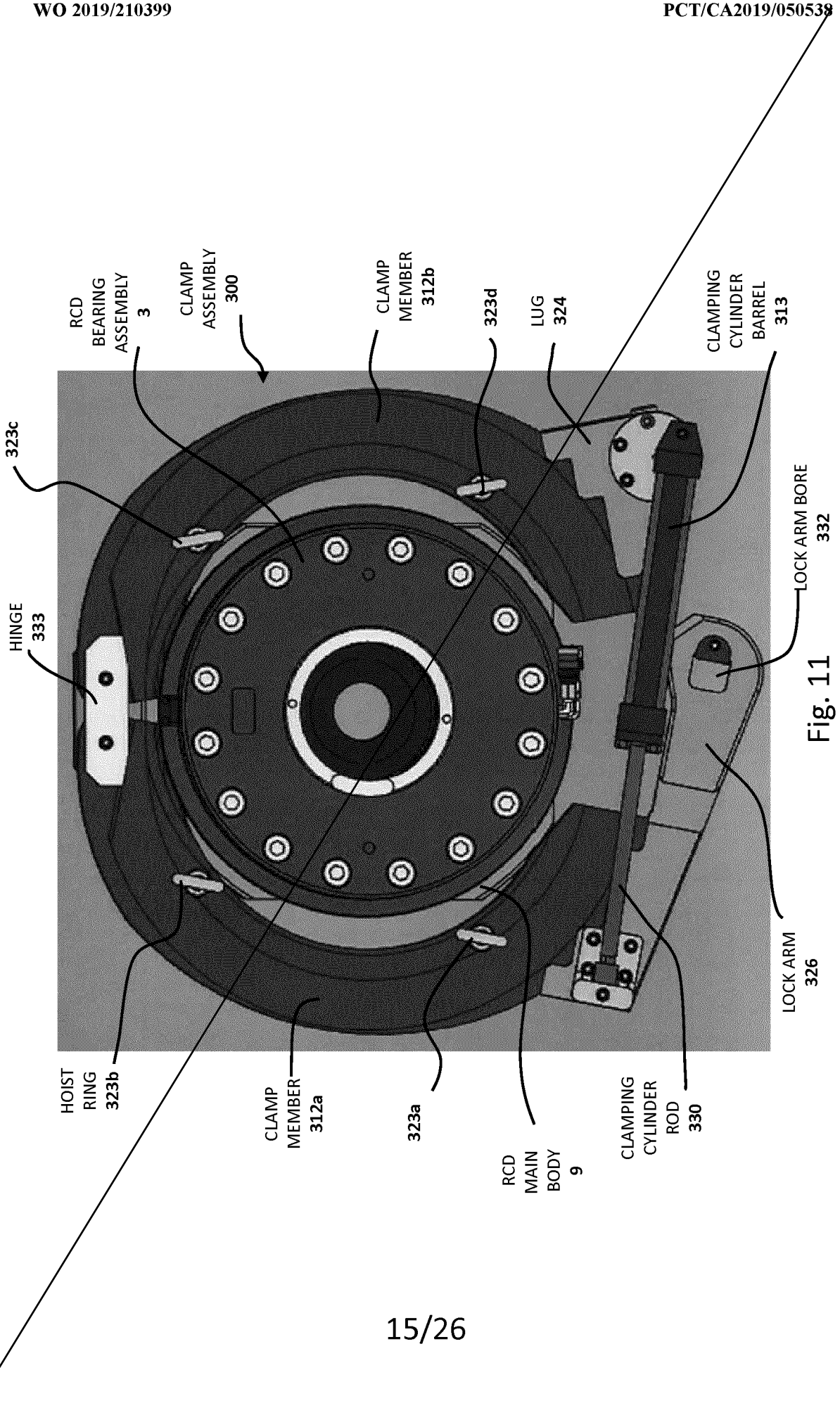

RCD BEARING ASSEMBLY 3
CLAMP ASSEMBLY 300
CLAMP MEMBER 312b
323d
LUG 324
CLAMPING CYLINDER BARREL 313
323c
LOCK ARM BORE 332
HINGE 333
LOCK ARM 326
HOIST RING 323b
CLAMP MEMBER 312a
323a
RCD MAIN BODY 9
CLAMPING CYLINDER ROD 330

Fig. 11

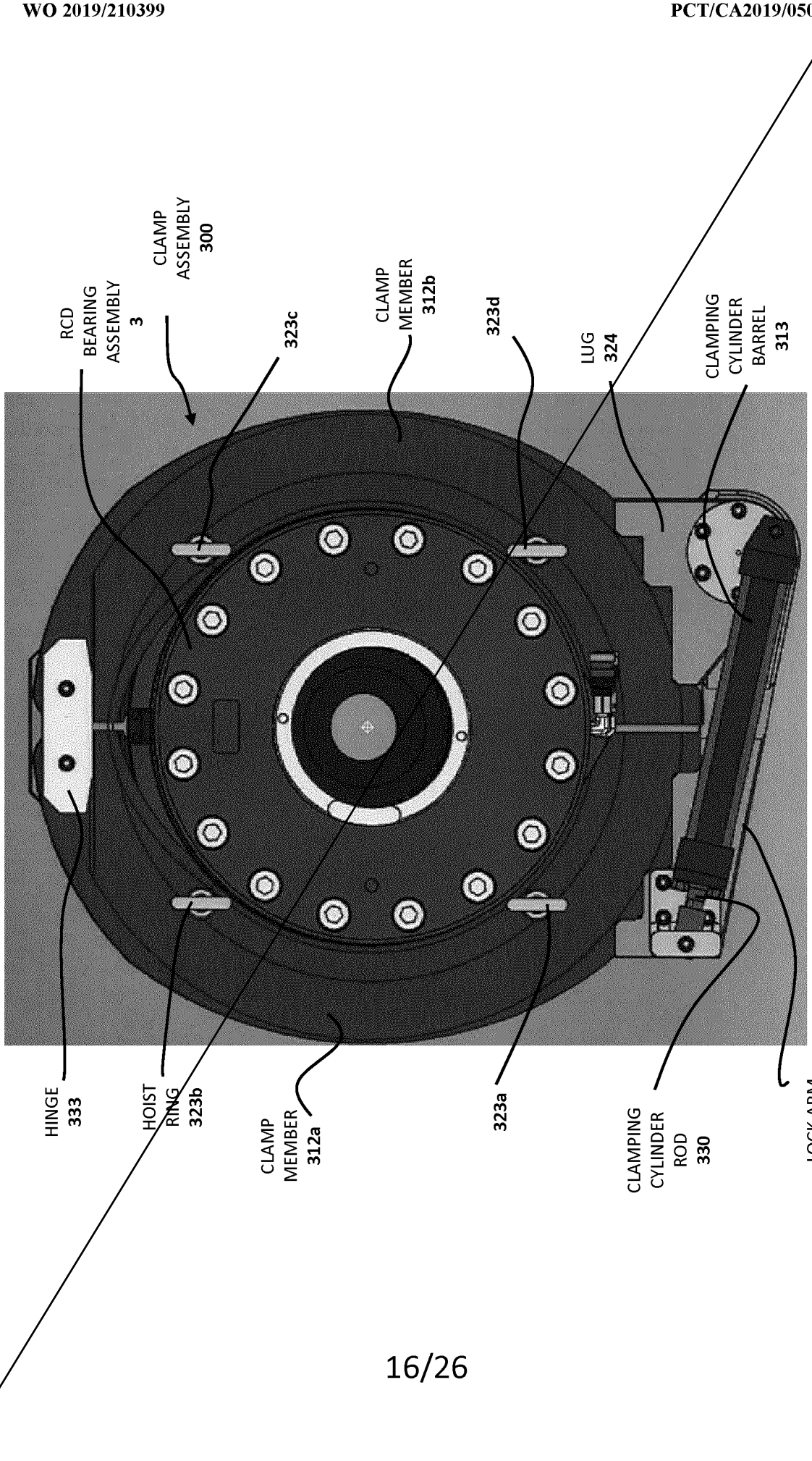

RCD BEARING ASSEMBLY 3
CLAMP ASSEMBLY 300
323c
CLAMP MEMBER 312b
323d
LUG 324
CLAMPING CYLINDER BARREL 313
HINGE 333
HOIST RING 323b
CLAMP MEMBER 312a
323a
CLAMPING CYLINDER ROD 330
LOCK ARM 326

Fig. 12

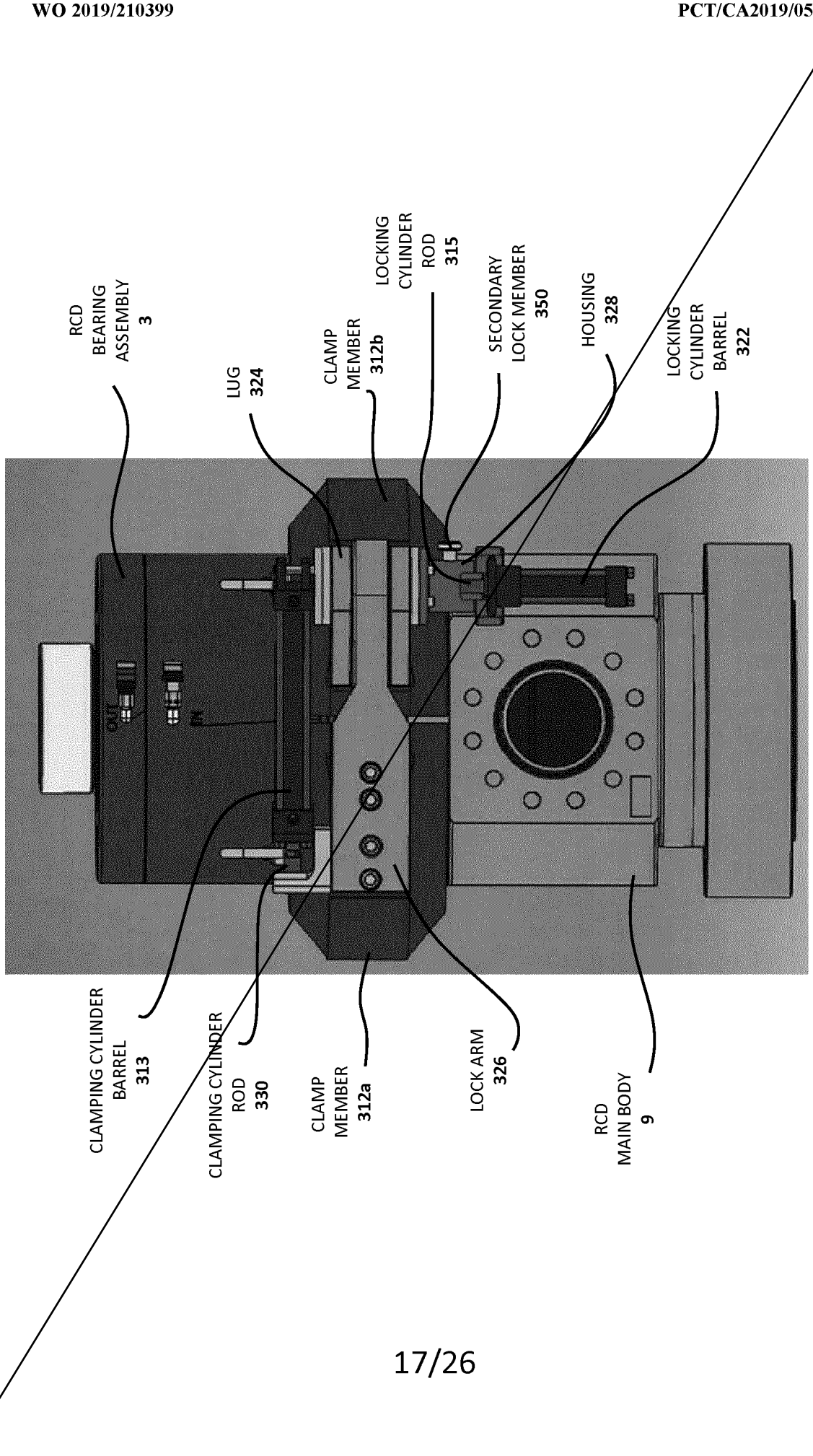

RCD BEARING ASSEMBLY 3
LUG 324
CLAMP MEMBER 312b
LOCKING CYLINDER ROD 315
SECONDARY LOCK MEMBER 350
HOUSING 328
LOCKING CYLINDER BARREL 322
CLAMPING CYLINDER BARREL 313
CLAMPING CYLINDER ROD 330
CLAMP MEMBER 312a
LOCK ARM 326
RCD MAIN BODY 9

Fig. 13

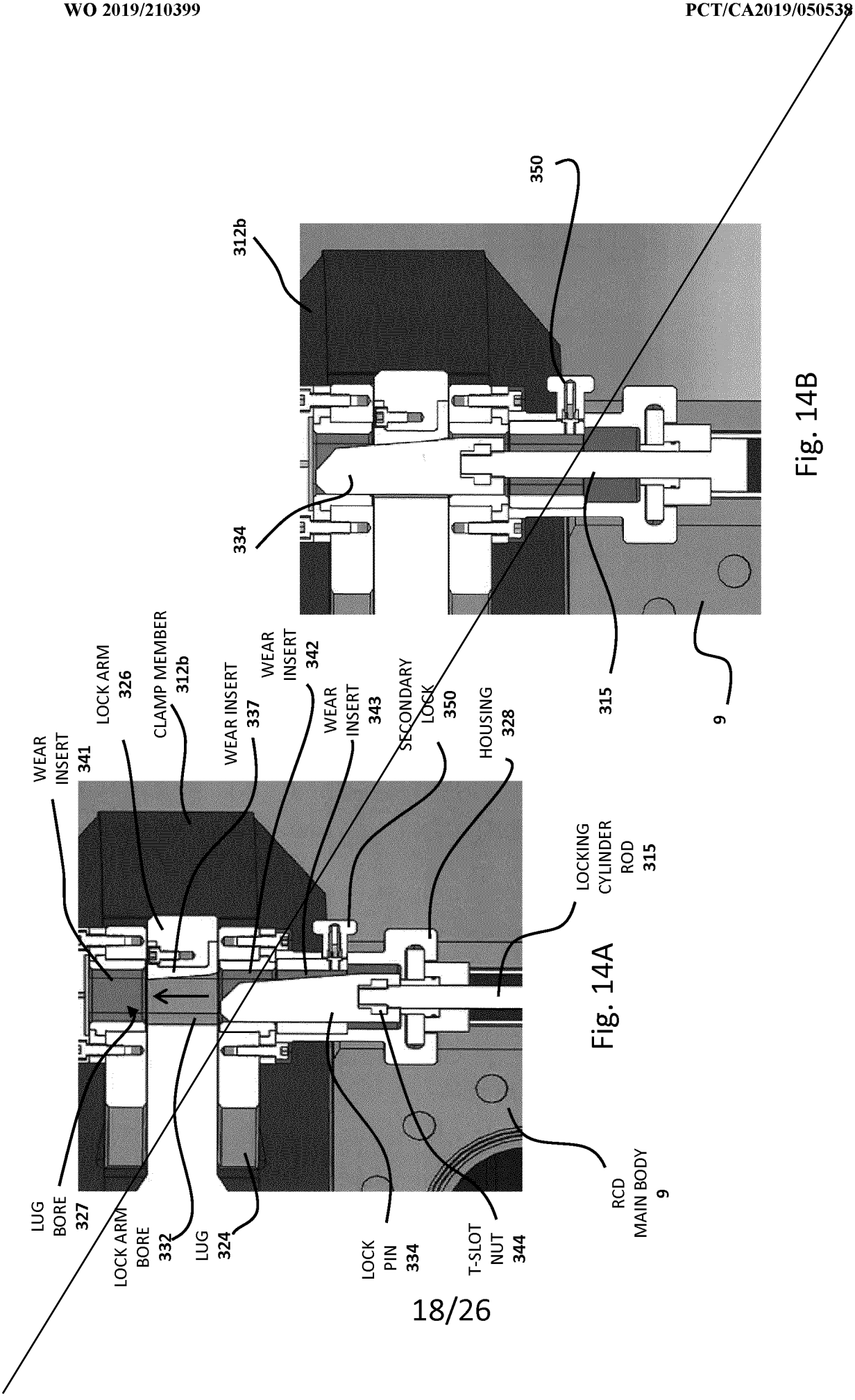


Fig. 14B

Fig. 14A

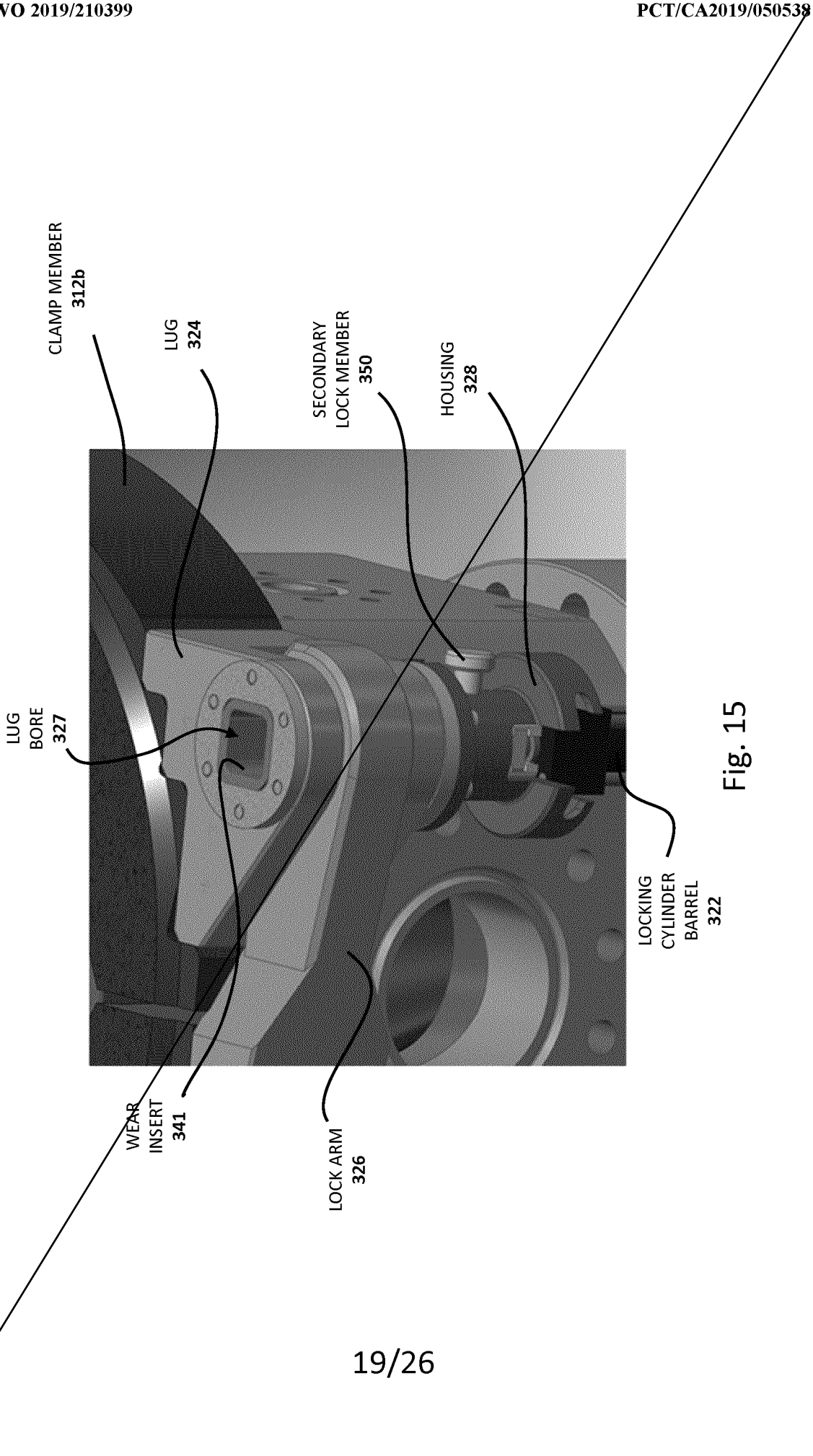

CLAMP MEMBER
312b
LUG
324
SECONDARY
LOCK MEMBER
350
HOUSING
328
LUG
BORE
327
WEAR
INSERT
341
LOCK ARM
326
LOCKING
CYLINDER
BARREL
322

Fig. 15

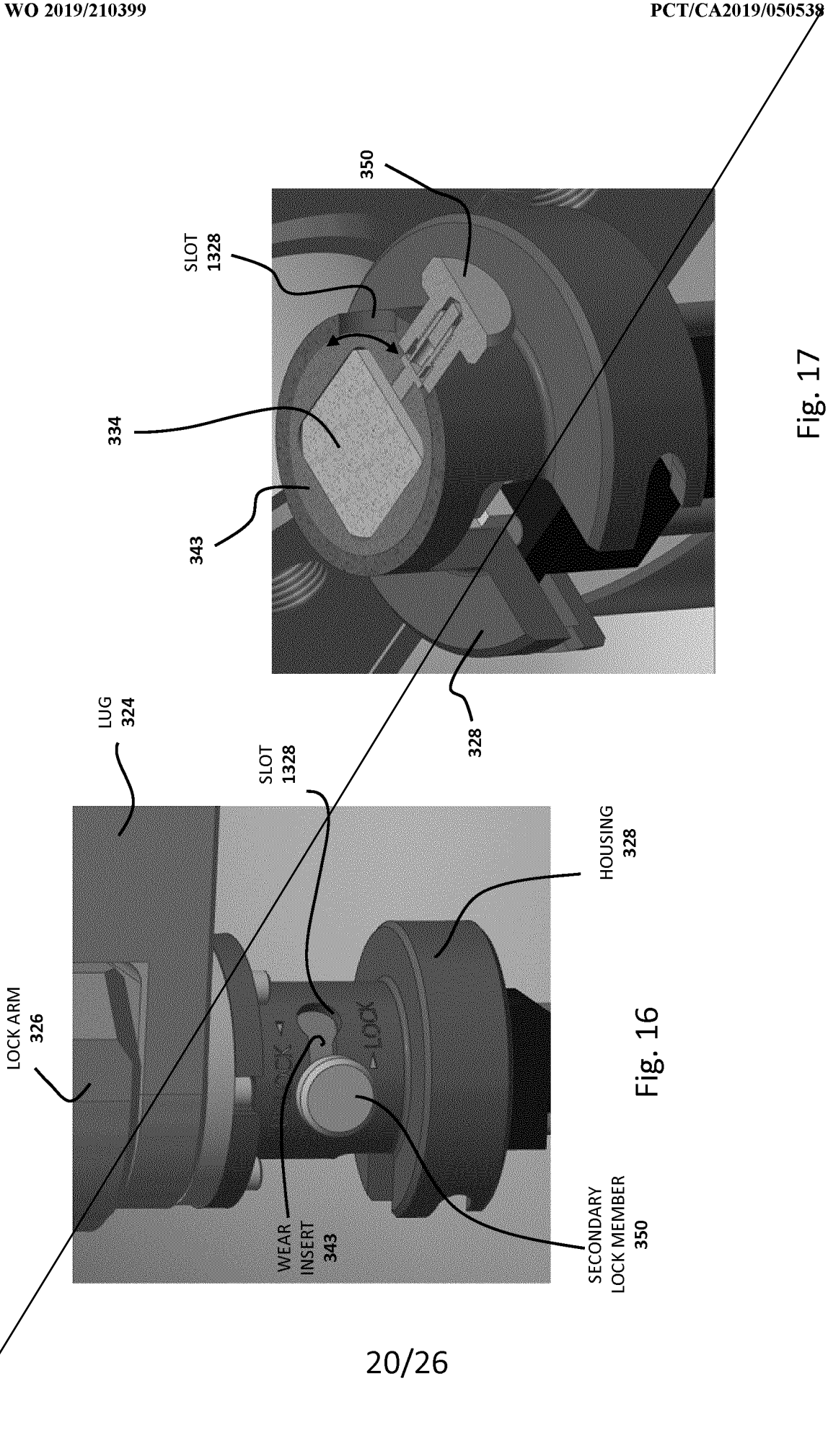

LOCK ARM
326
LUG
324
SLOT
1328
HOUSING
328
WEAR
INSERT
343
SECONDARY
LOCK MEMBER
350
LOCK
UNLOCK

Fig. 16

350
SLOT
1328
334
343
328

Fig. 17

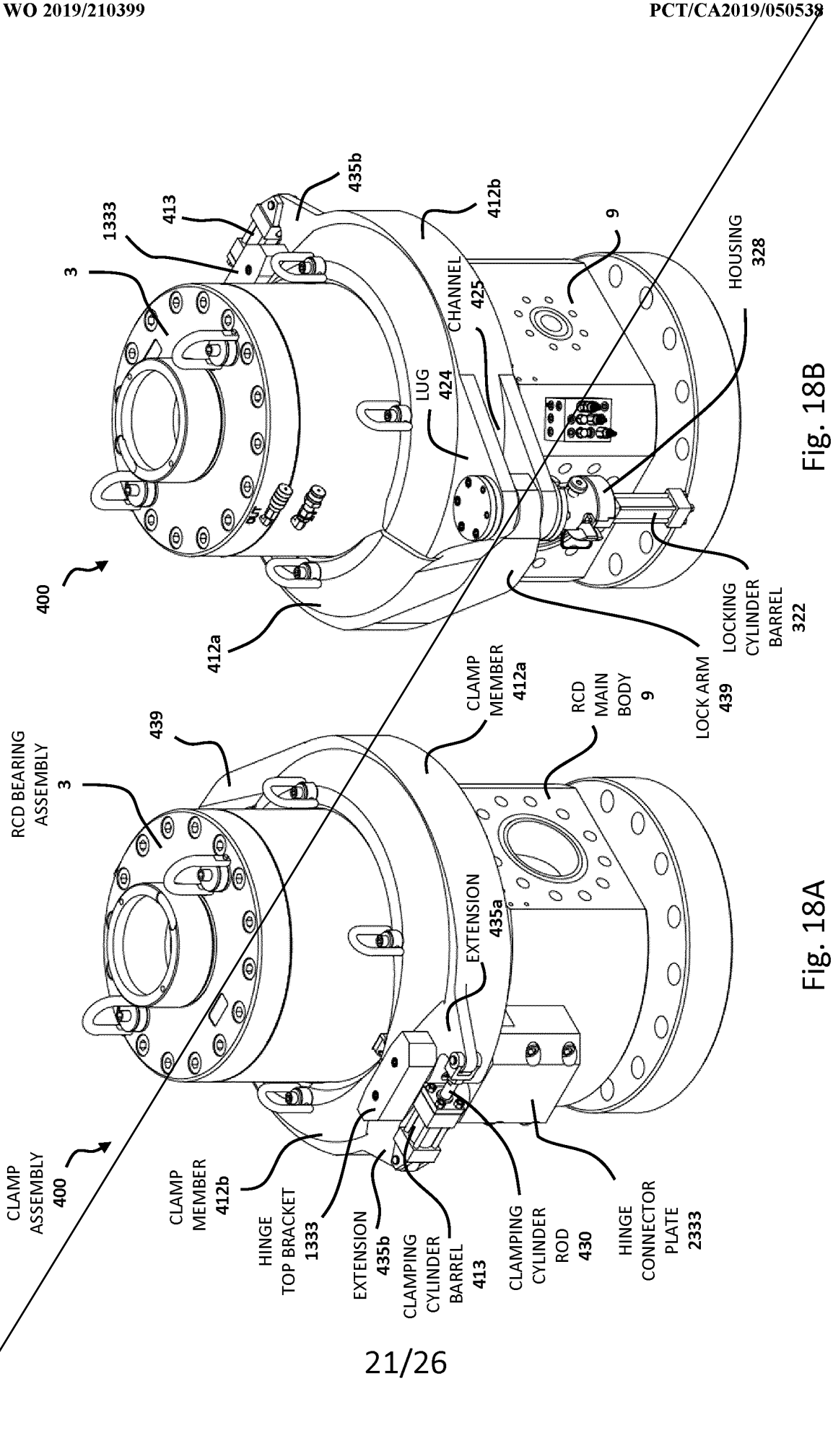


Fig. 18A

Fig. 18B

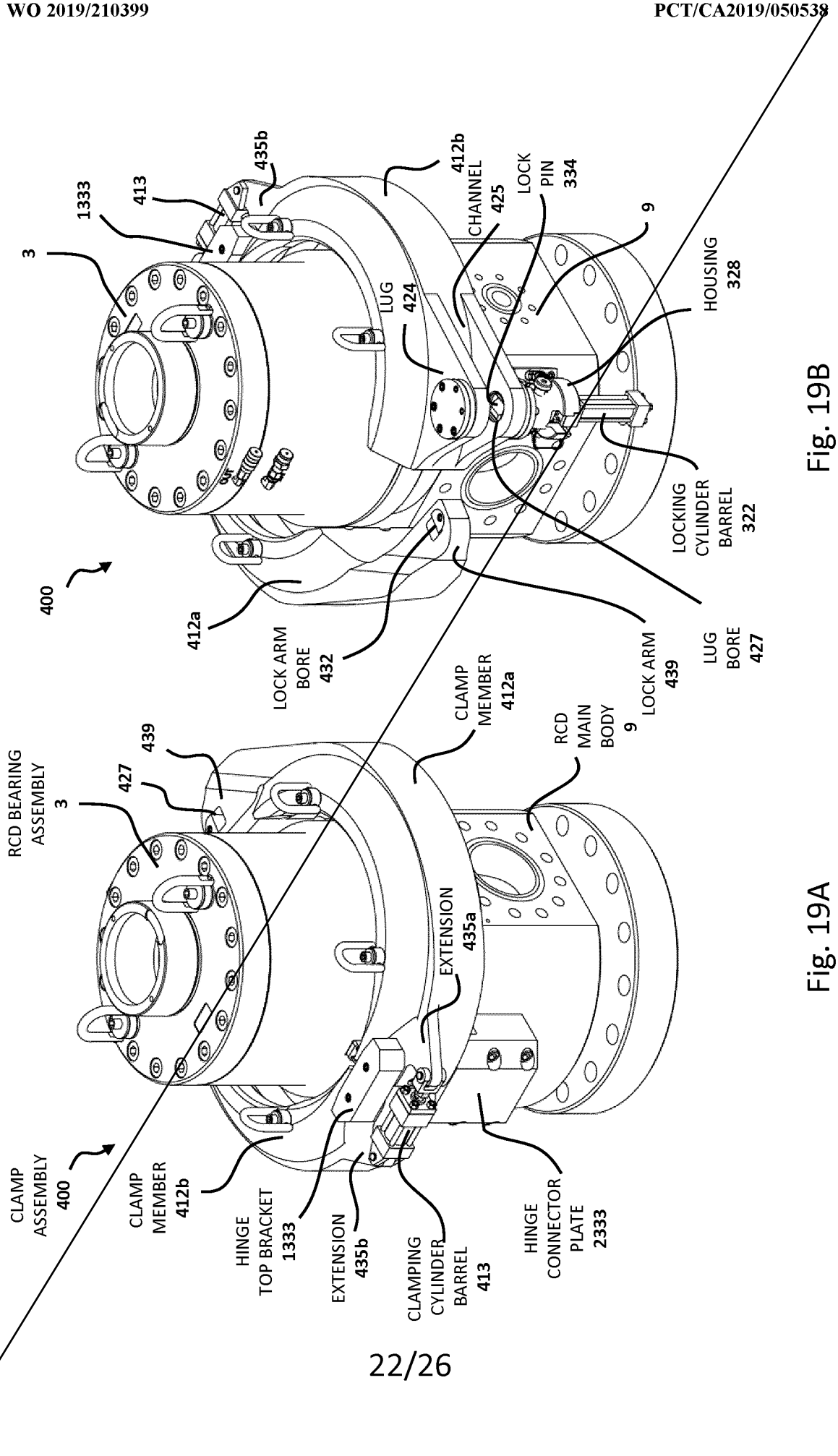


Fig. 19A

Fig. 19B

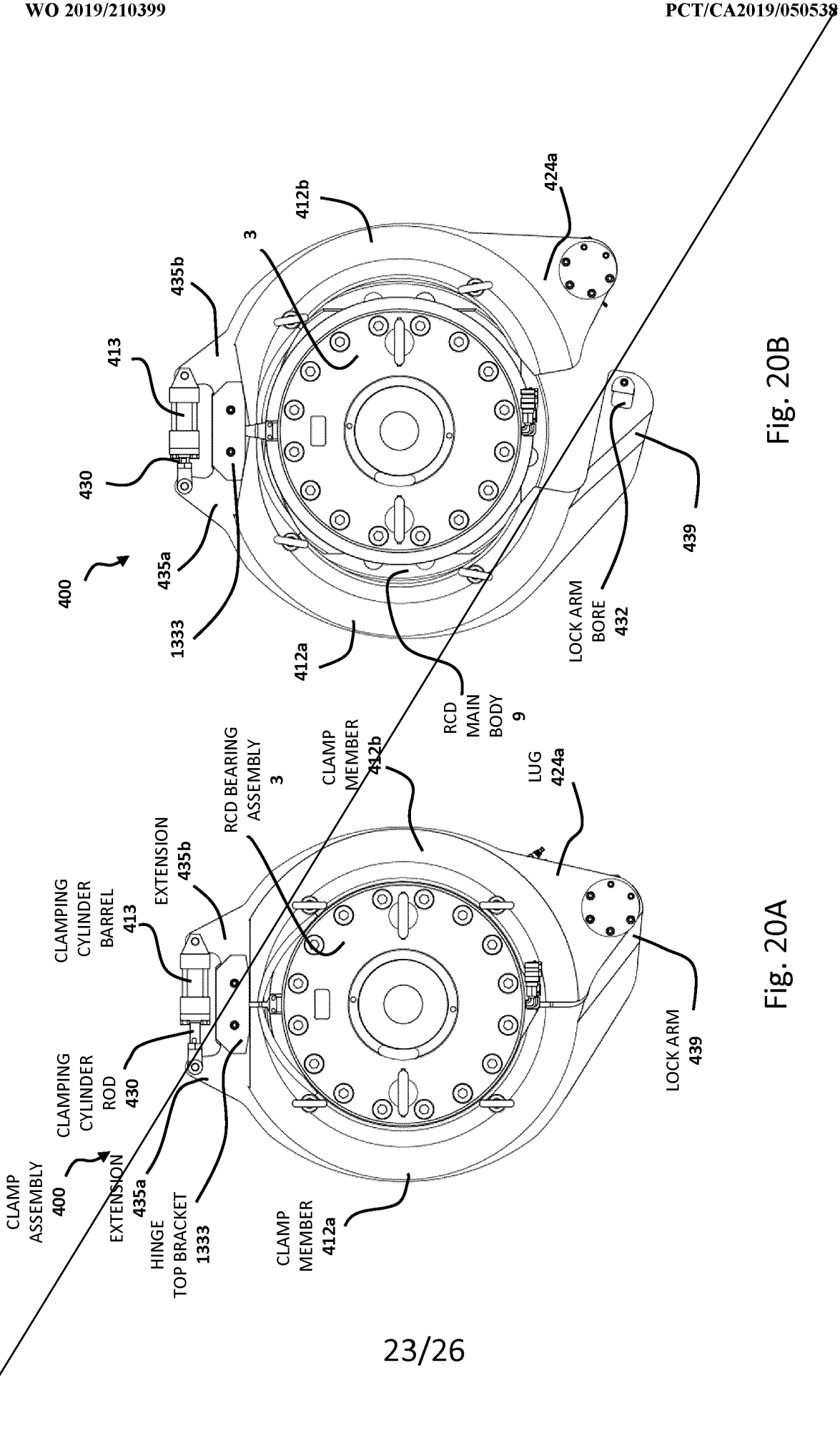


Fig. 20A

Fig. 20B

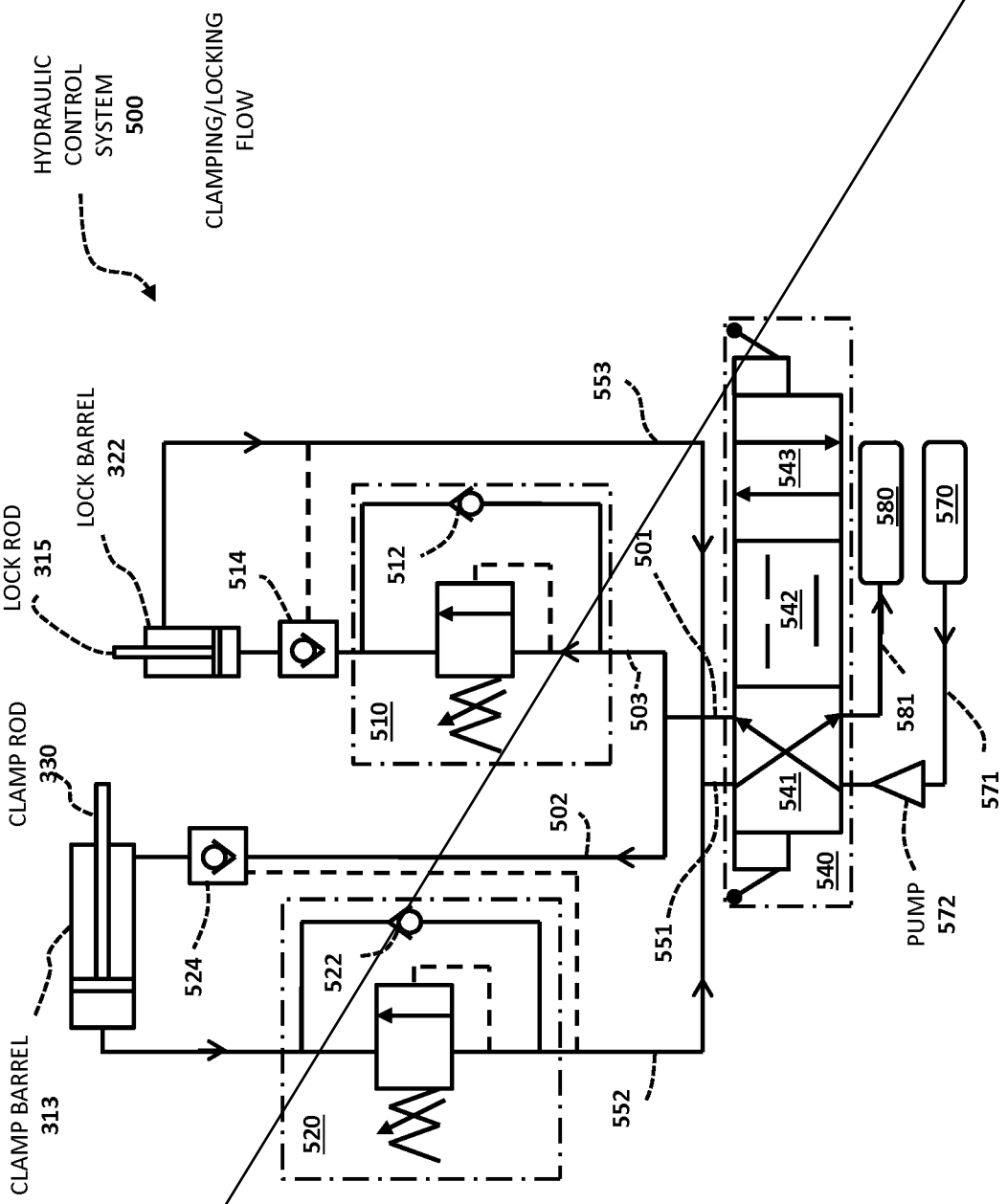

HYDRAULIC CONTROL SYSTEM 500
CLAMPING/LOCKING FLOW
LOCK ROD 315
LOCK BARREL 322
CLAMP ROD 330
CLAMP BARREL 313
514
512
510
503
501
553
543
580
570
542
581
571
502
524
522
520
552
551
541
540
PUMP 572

Fig. 21A

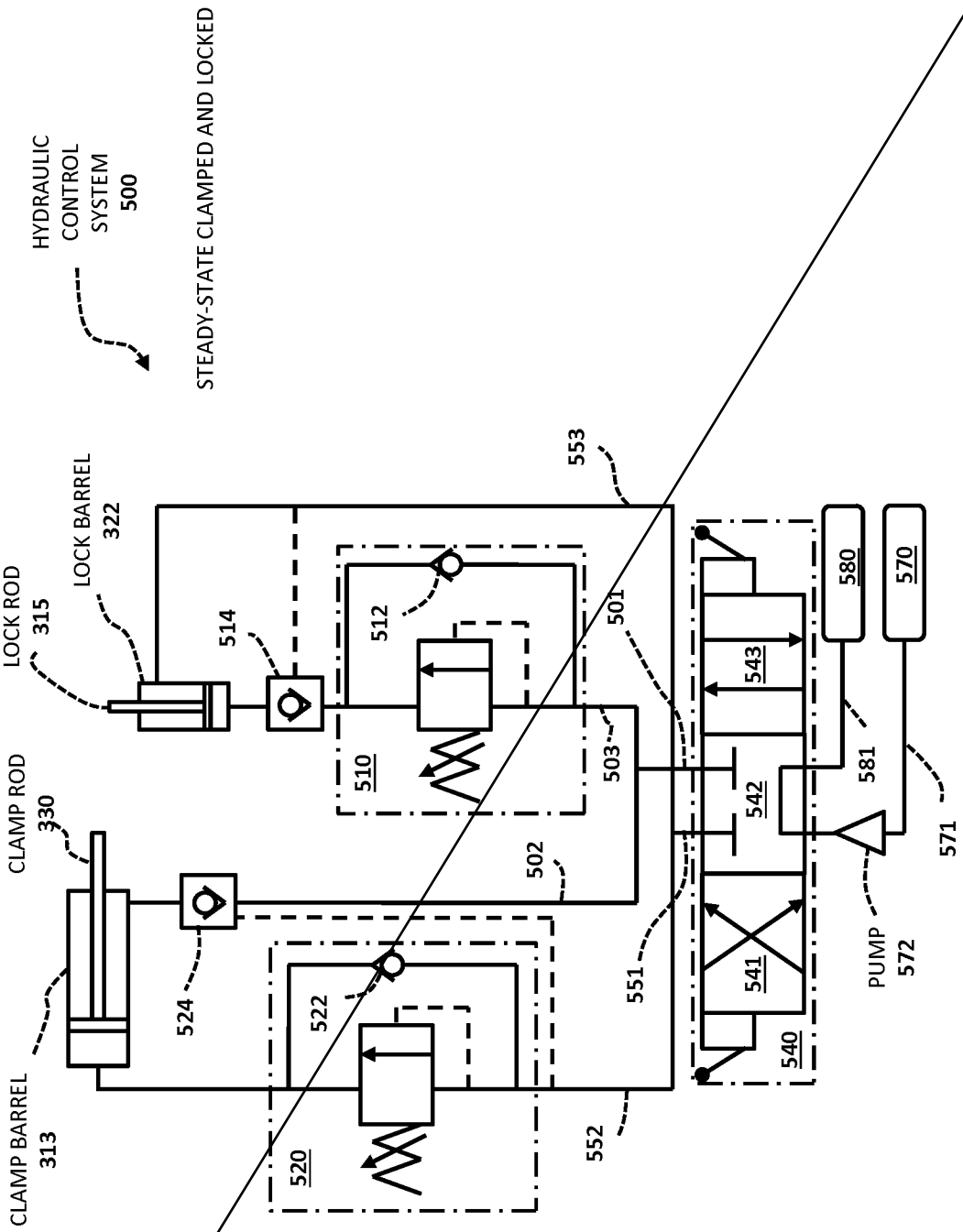

HYDRAULIC CONTROL SYSTEM 500
STEADY-STATE CLAMPED AND LOCKED
LOCK ROD 315
LOCK BARREL 322
CLAMP ROD 330
CLAMP BARREL 313
514
512
510
503
501
553
502
524
522
520
551
552
543
542
541
540
580
570
581
571
PUMP 572

Fig. 21B

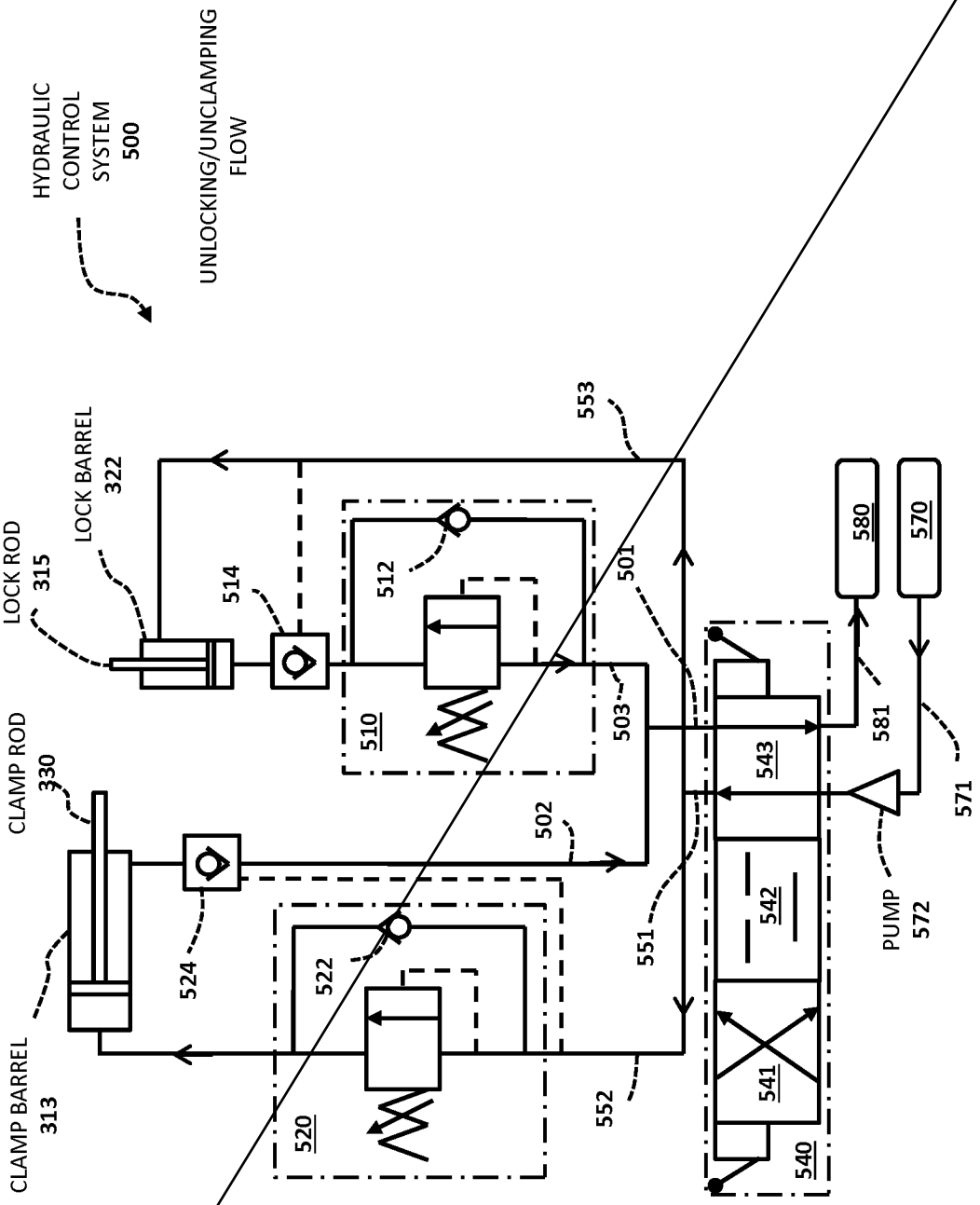

HYDRAULIC CONTROL SYSTEM 500
UNLOCKING/UNCLAMPING FLOW
LOCK ROD 315
LOCK BARREL 322
CLAMP ROD 330
CLAMP BARREL 313
514
512
510
503
501
553
580
570
581
571
543
542
541
540
502
551
552
520
522
524
PUMP 572

Fig. 21C

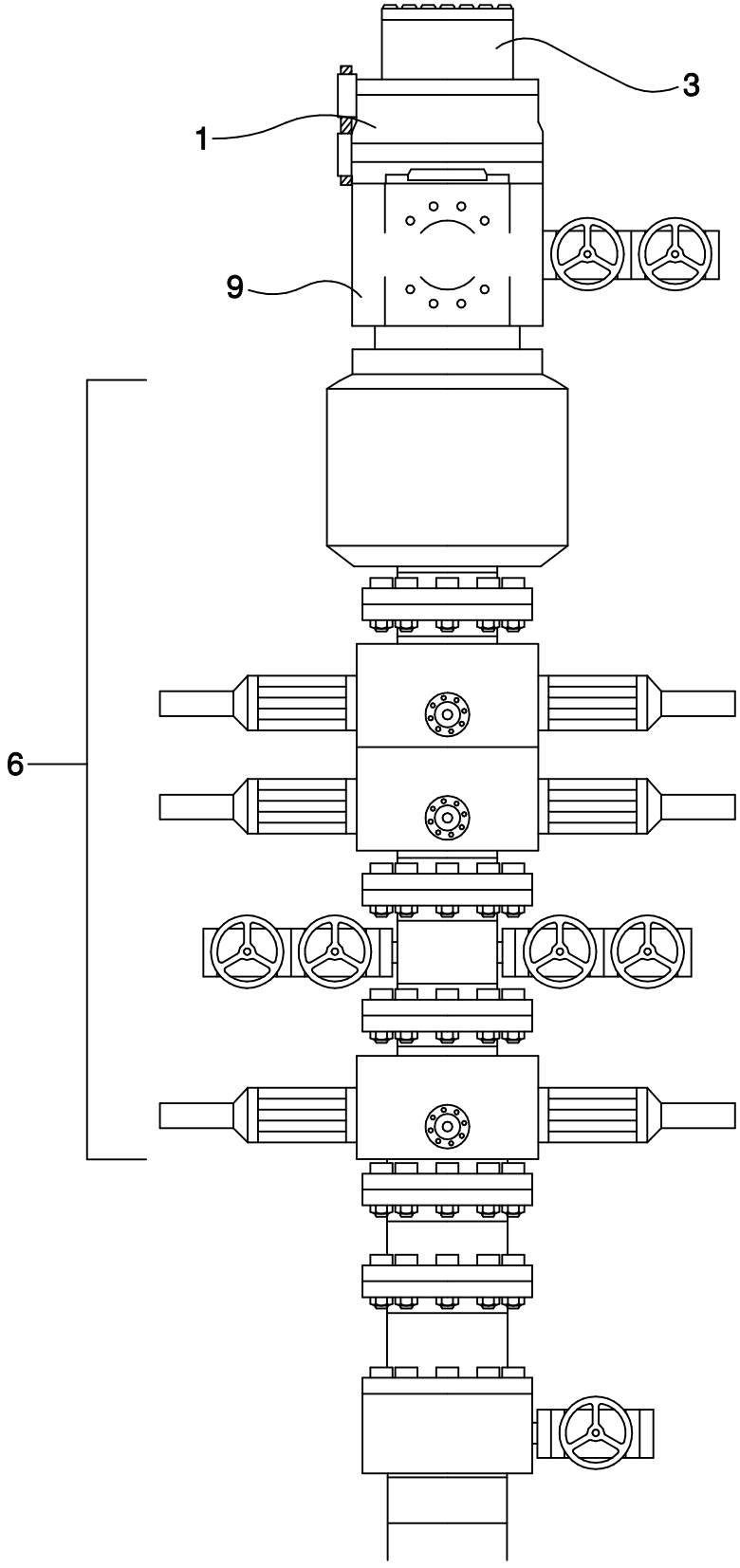


Fig. 1
(PRIOR ART)

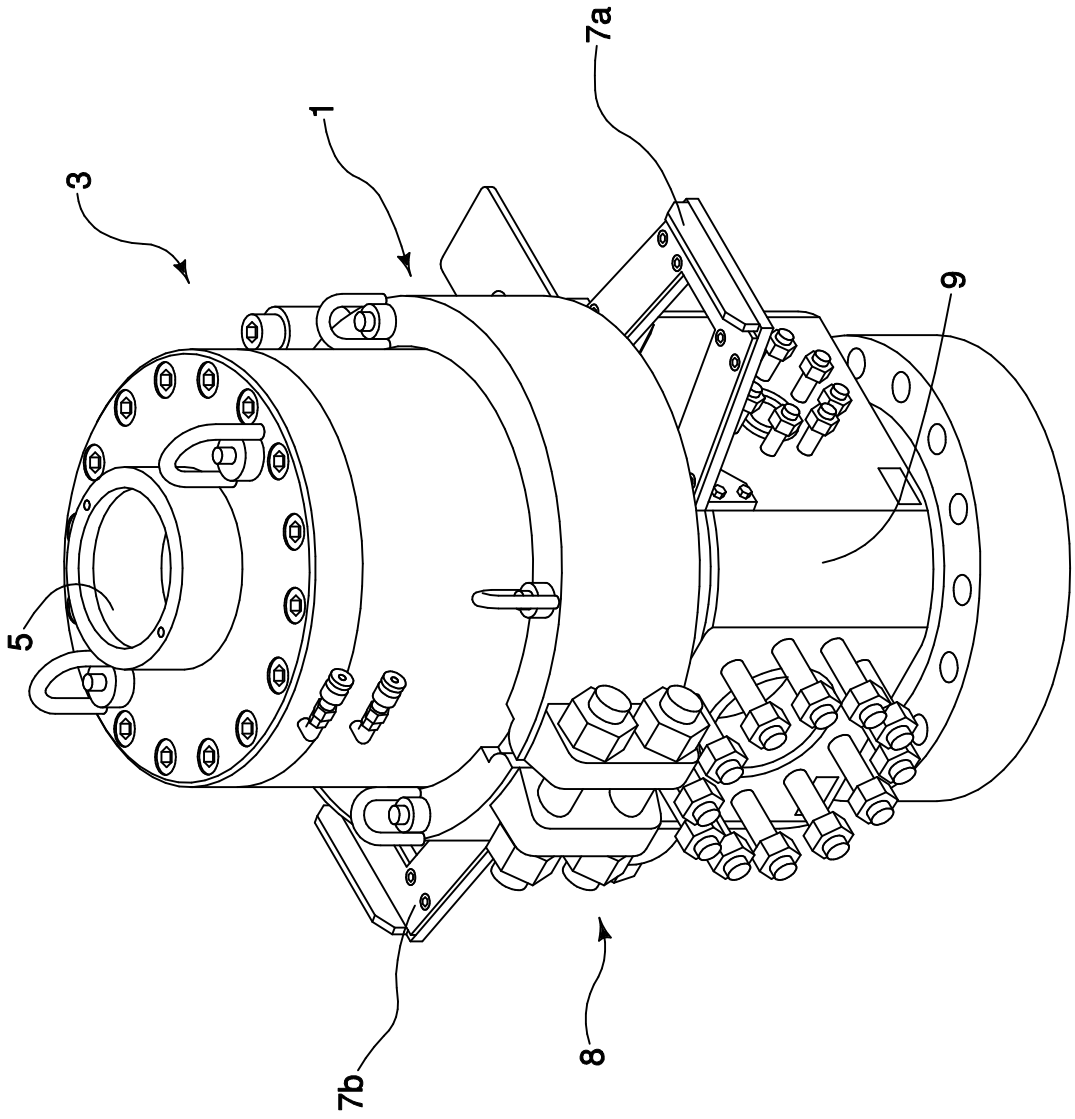


Fig. 2
(PRIOR ART)

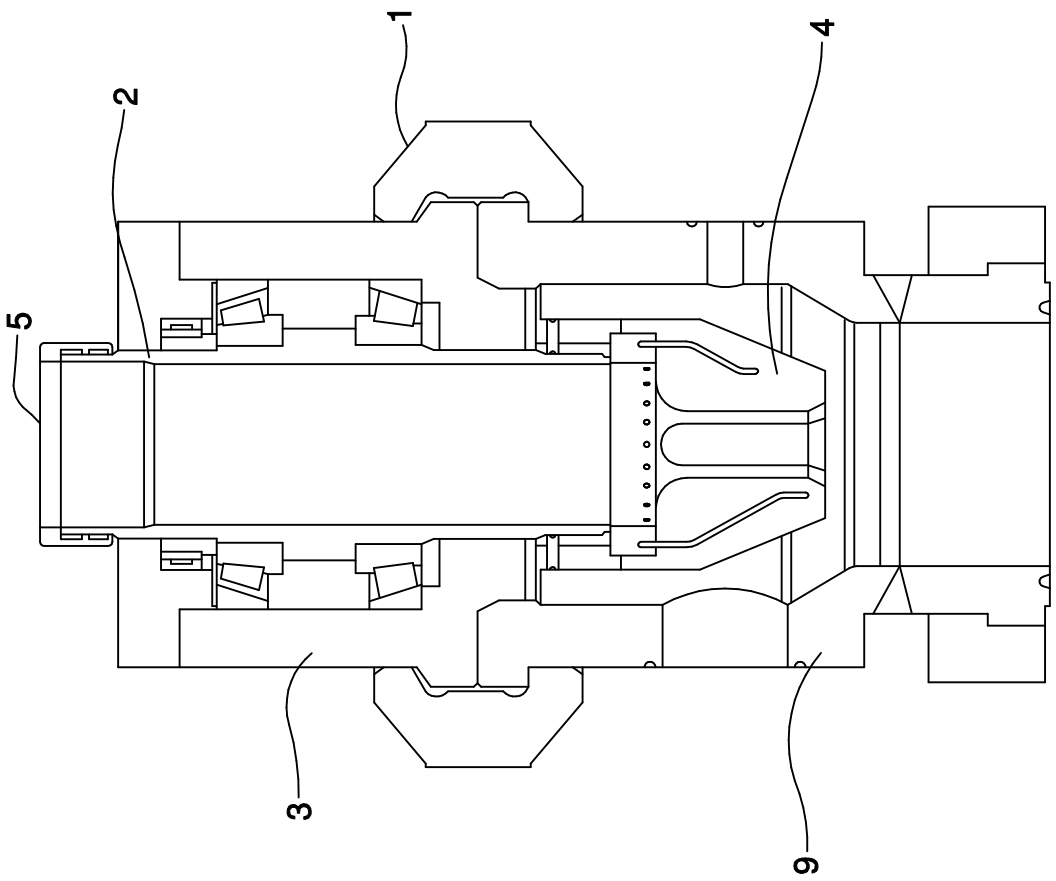


Fig. 3
(PRIOR ART)

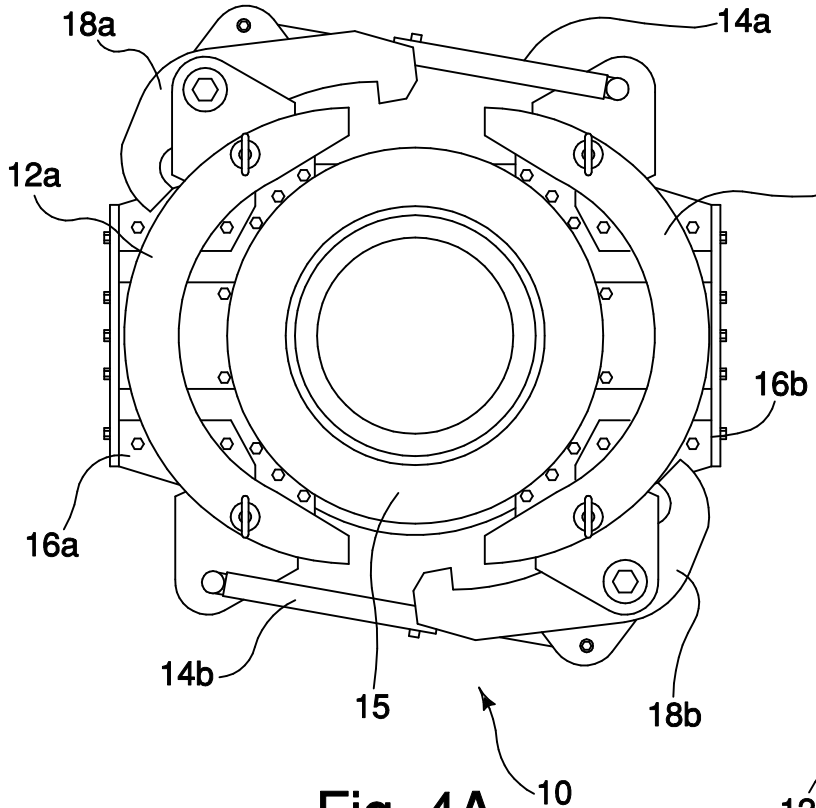


Fig. 4A
(PRIOR ART)

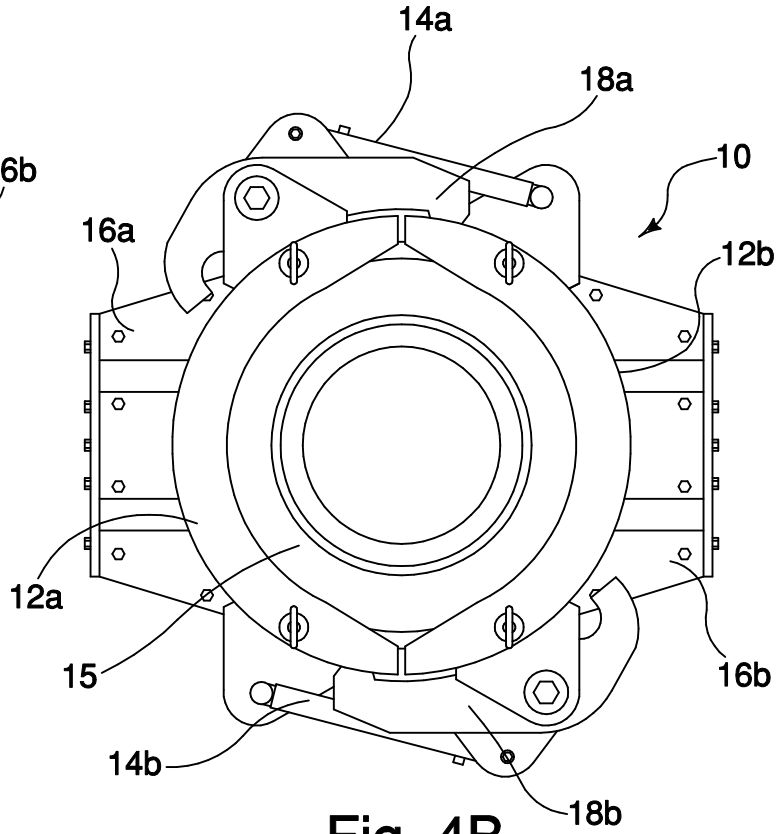


Fig. 4B
(PRIOR ART)

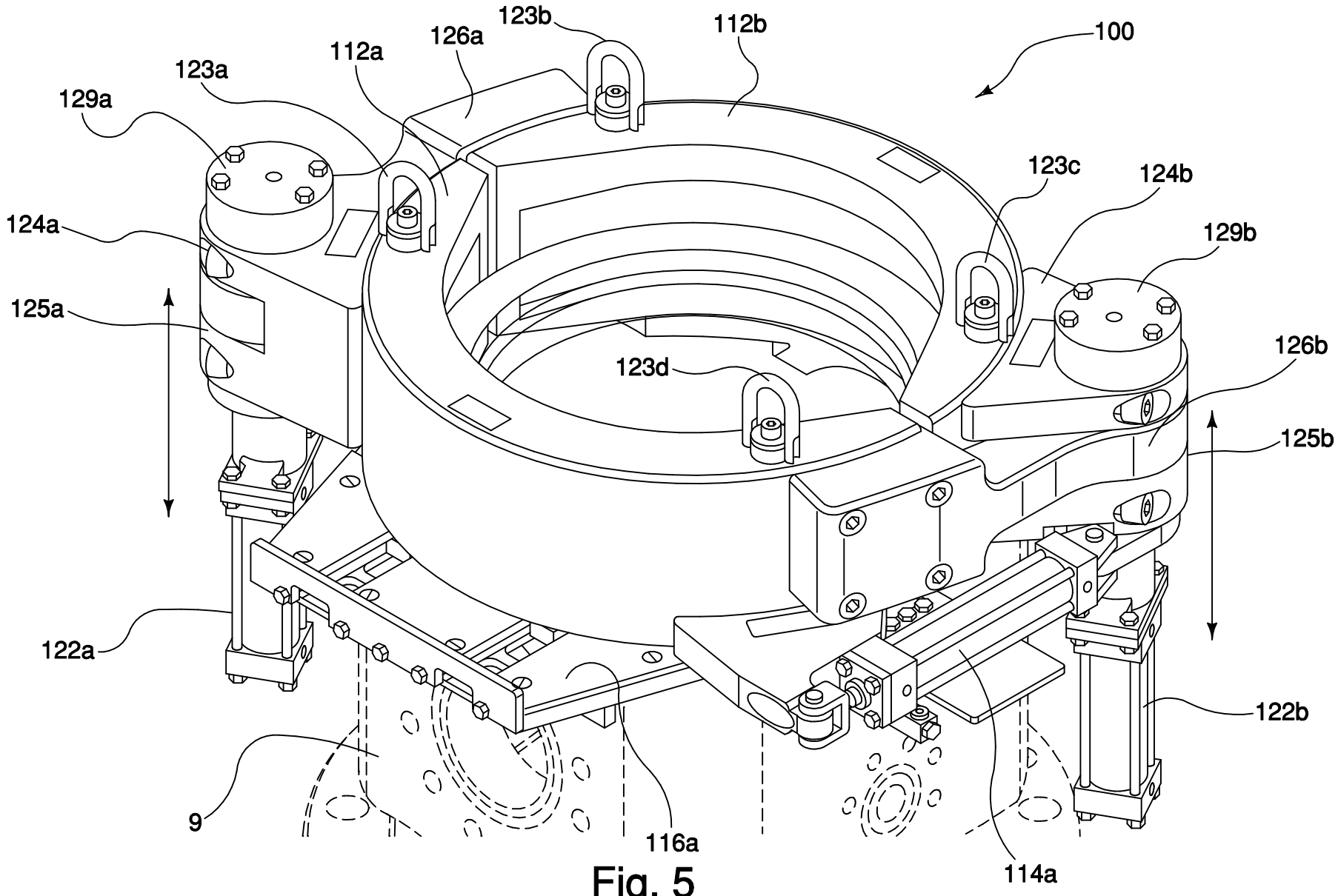

123b
112b
126a
112a
100
123a
129a
123c
124b
124a
129b
125a
123d
126b
125b
122a
122b
9
116a
114a

Fig. 5

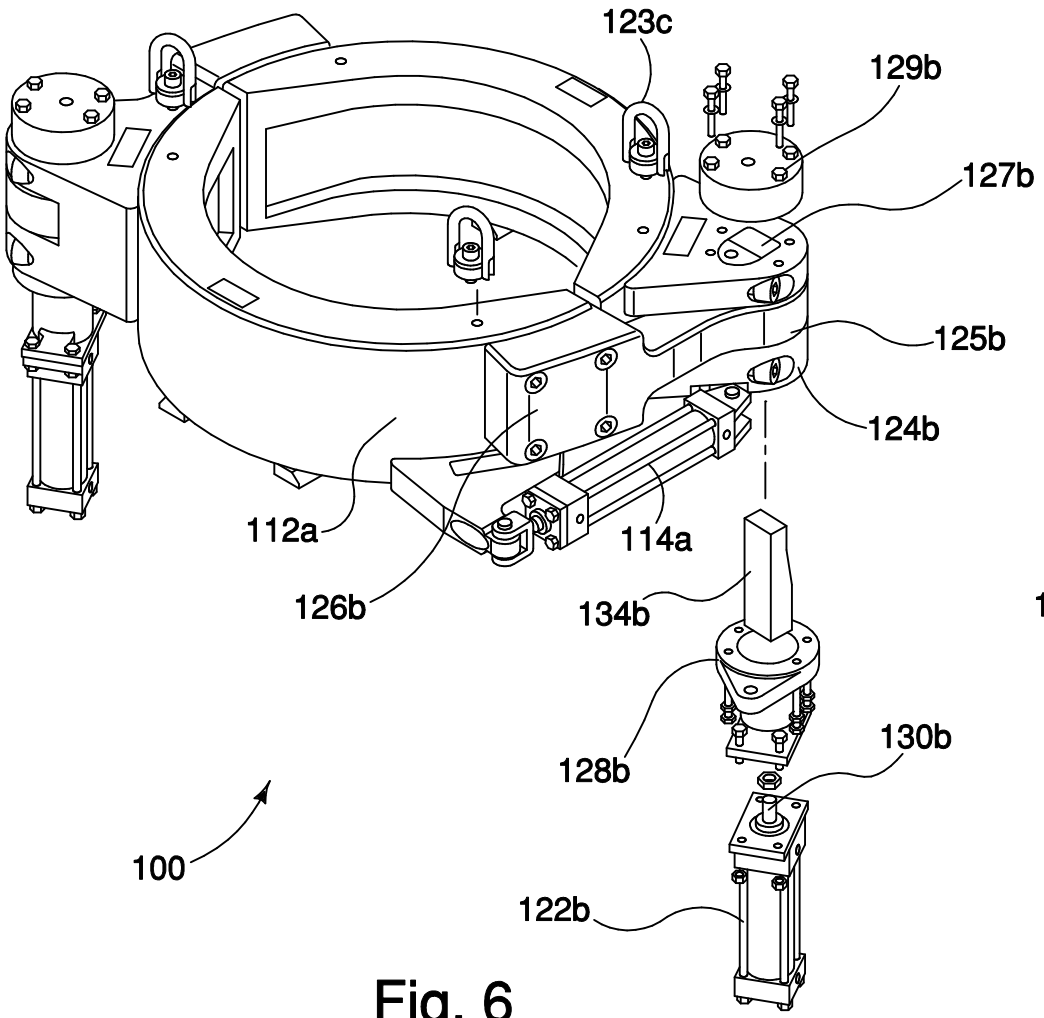

123c
129b
127b
125b
124b
112a
114a
126b
134b
128b
130b
122b
100

Fig. 6

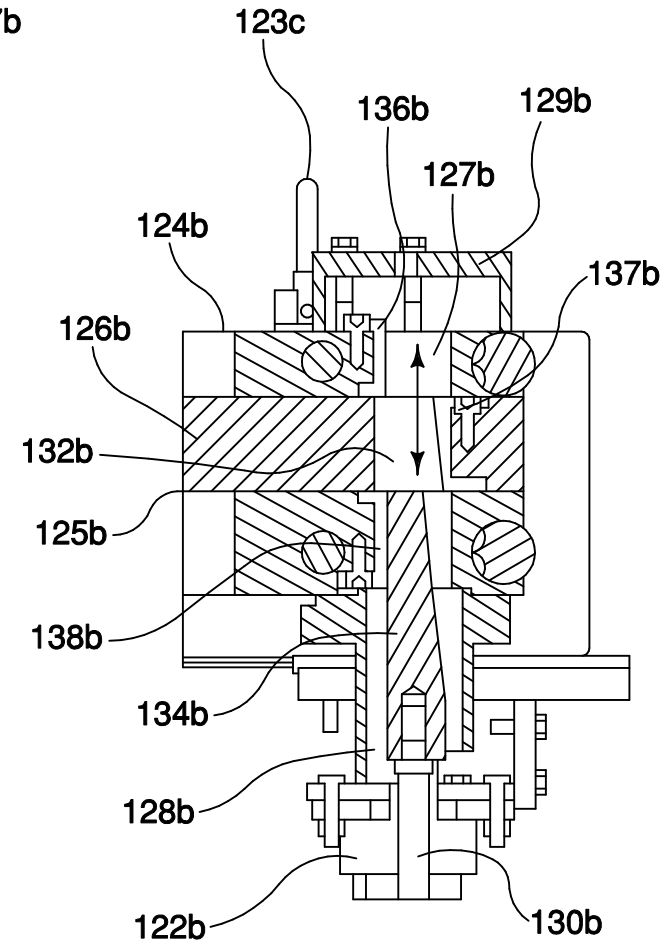

123c
136b
129b
127b
124b
137b
126b
132b
125b
138b
134b
128b
122b
130b

Fig. 7

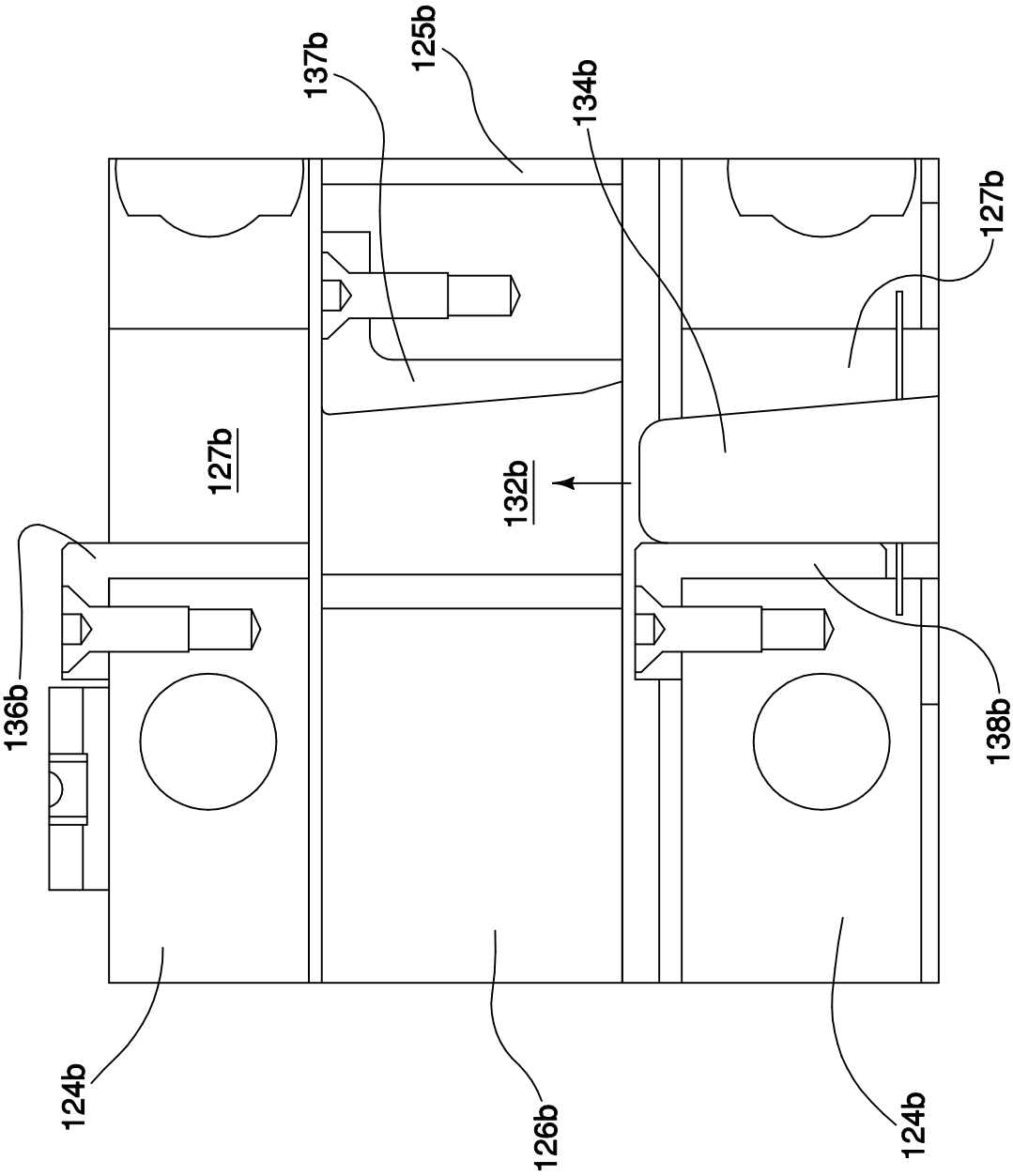


Fig. 8A

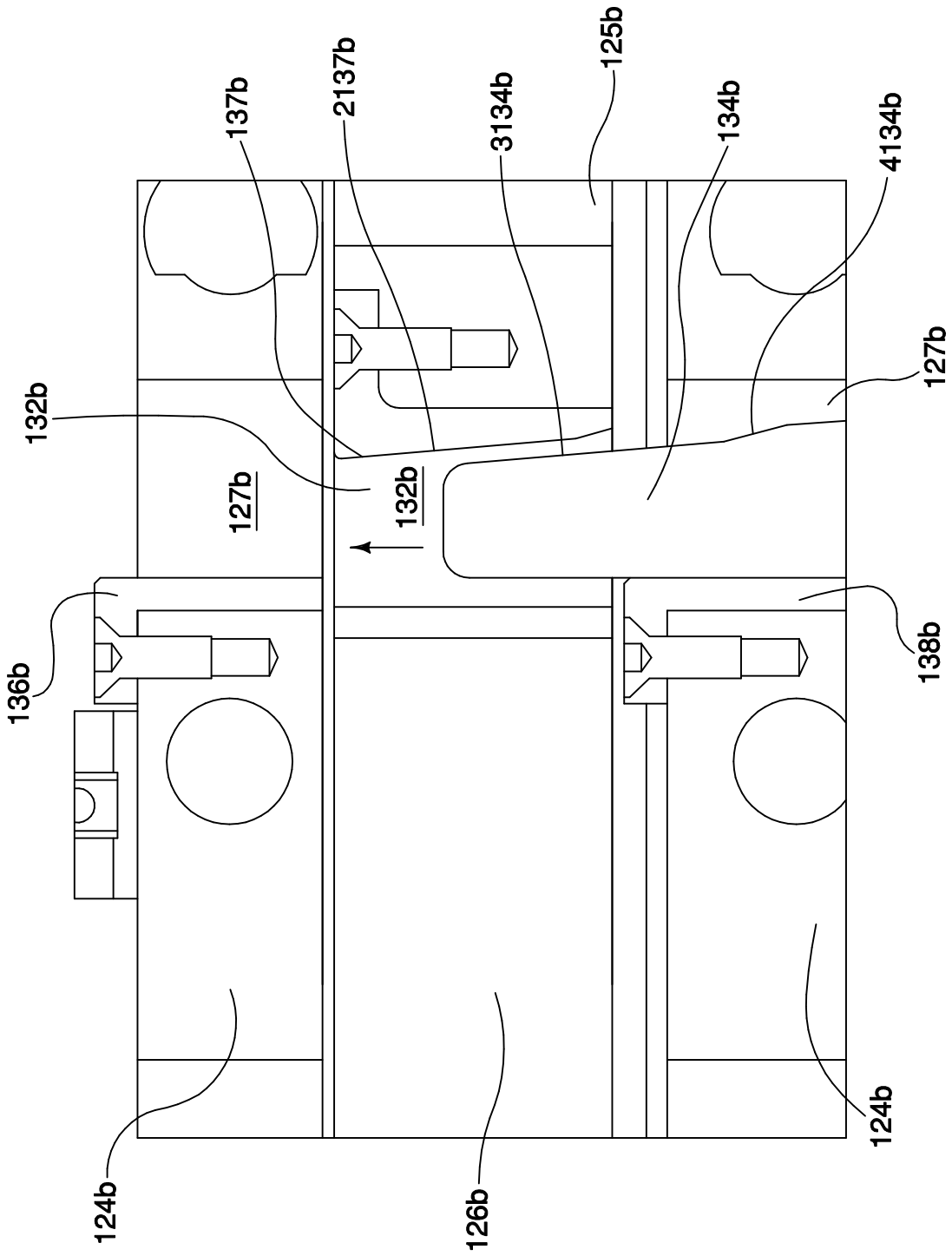

137b
2137b
3134b
125b
134b
4134b
132b
127b
132b
127b
136b
138b
124b
126b
124b

Fig. 8B

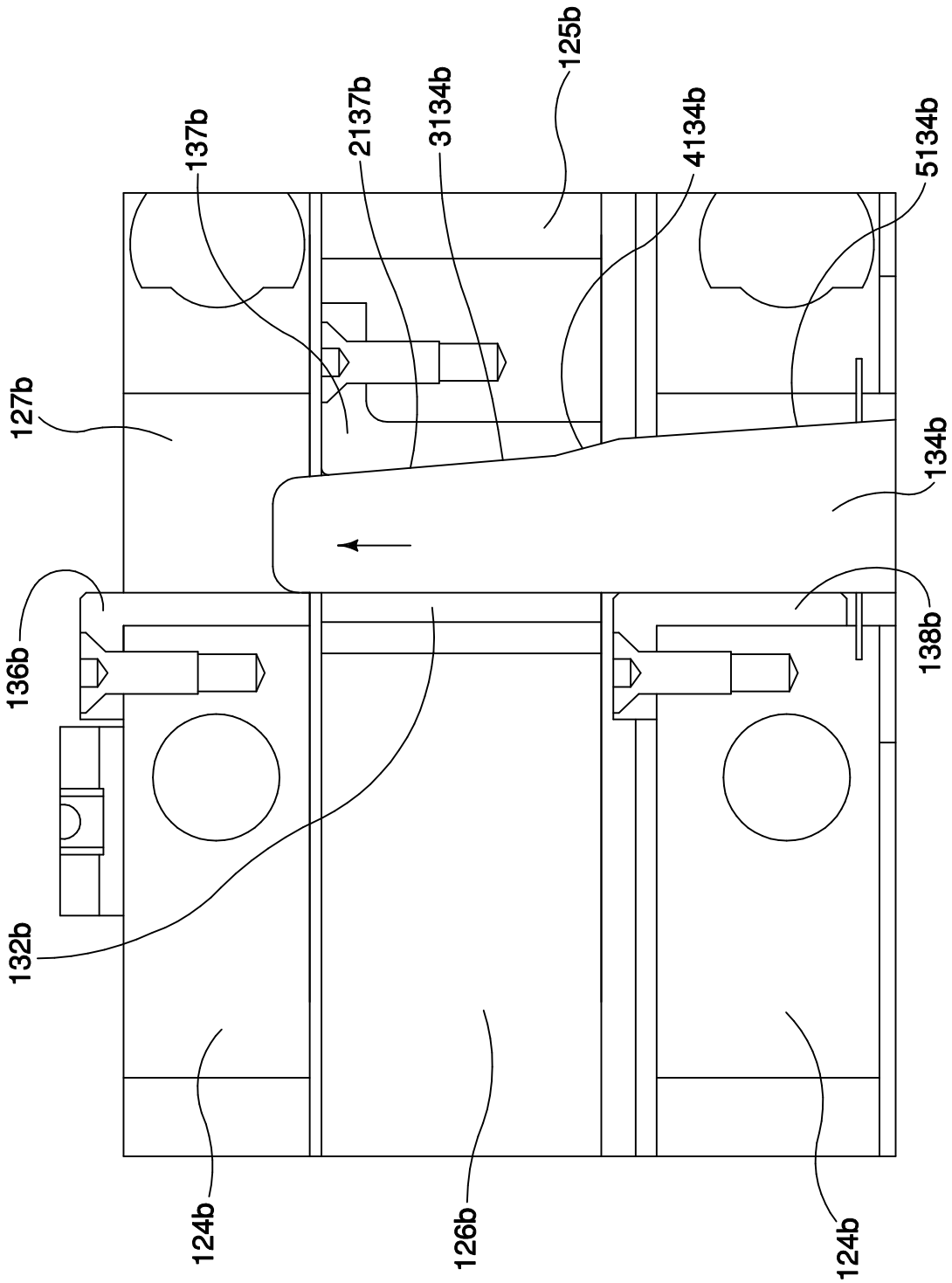

137b
2137b
3134b
125b
4134b
5134b
127b
134b
136b
138b
132b
124b
126b
124b

Fig. 8C

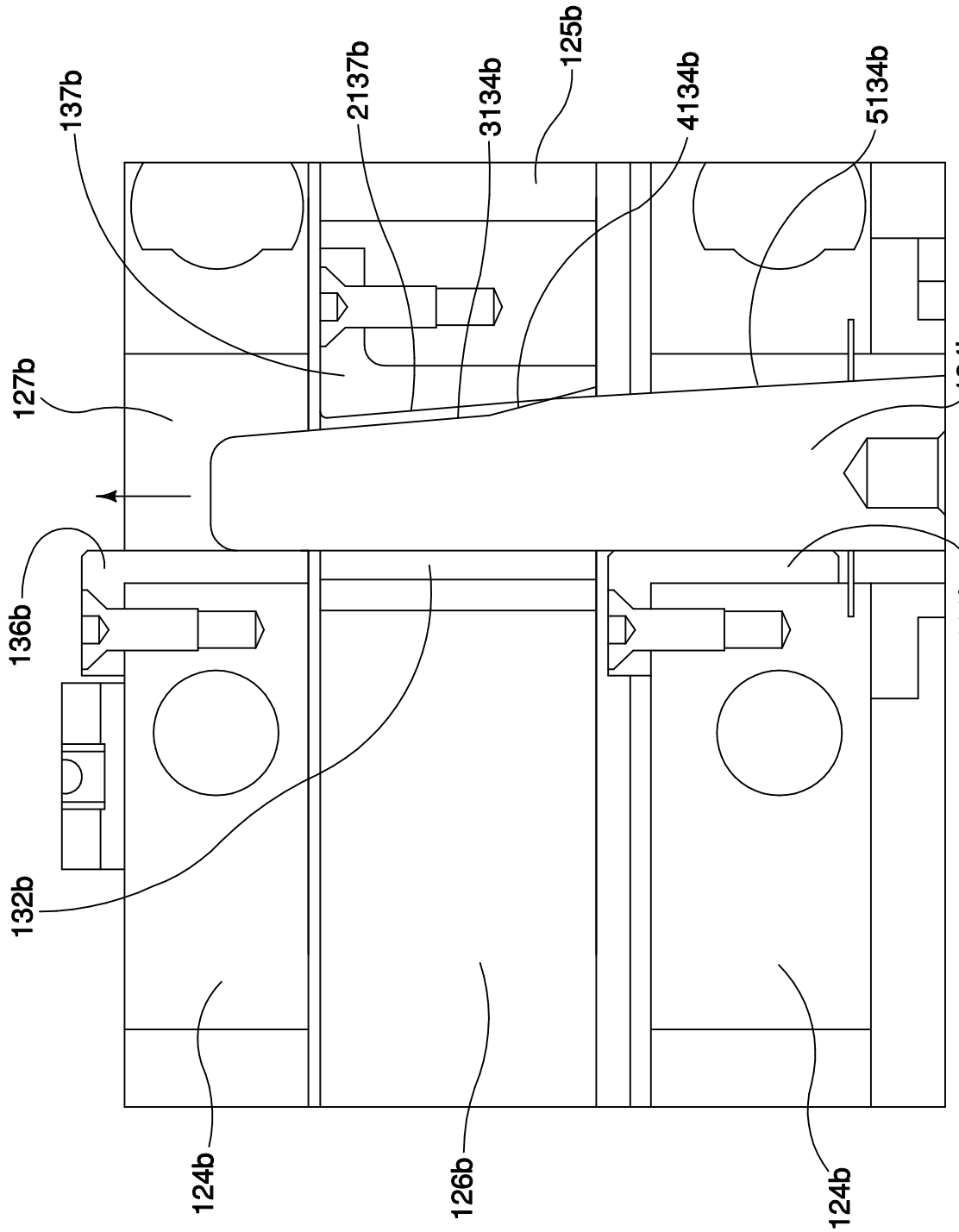

137b
2137b
3134b
125b
4134b
5134b
127b
134b
136b
138b
132b
124b
126b
124b

Fig. 8D

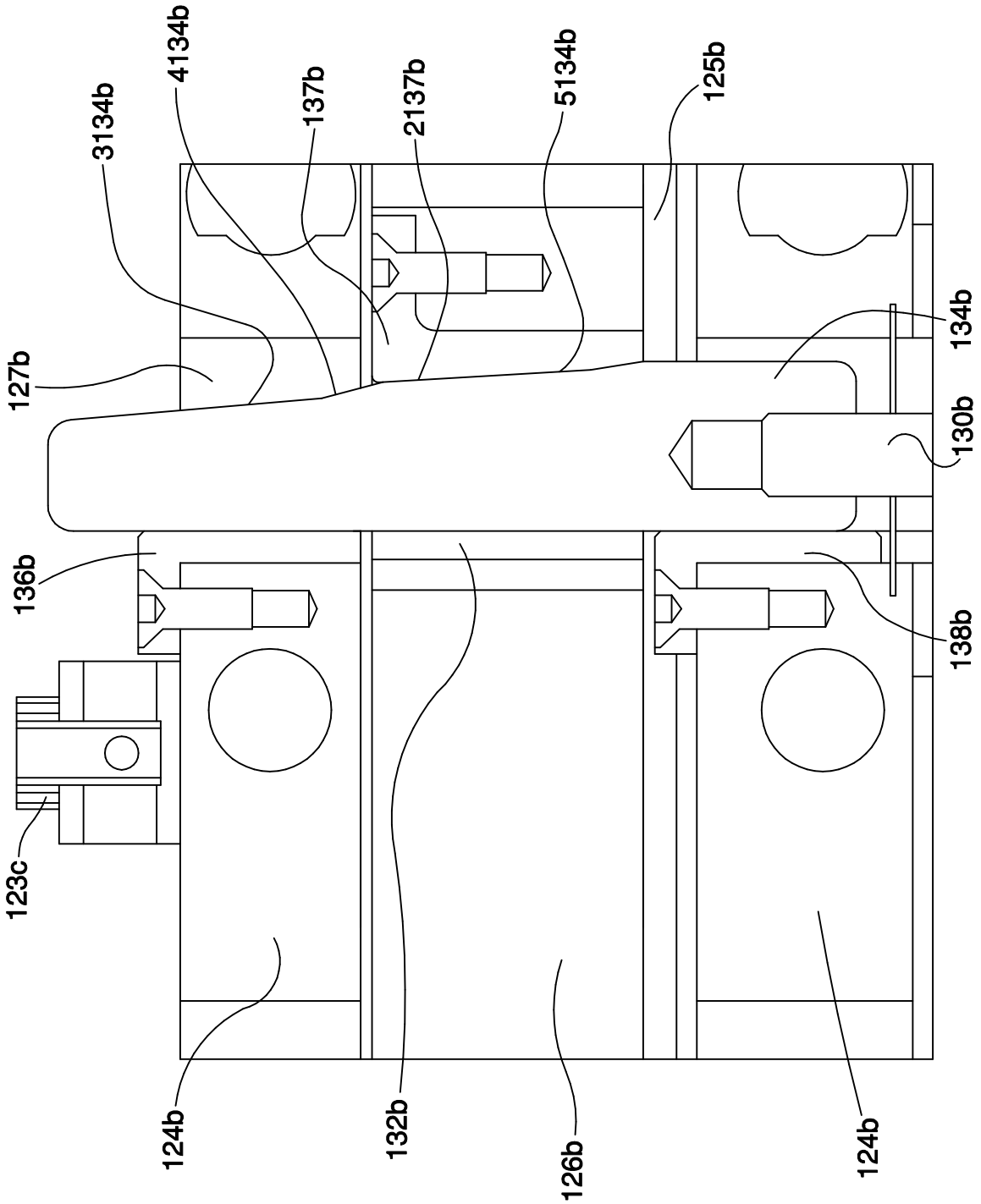

3134b
4134b
137b
2137b
5134b
125b
127b
134b
130b
136b
138b
123c
124b
132b
126b
124b

Fig. 8E

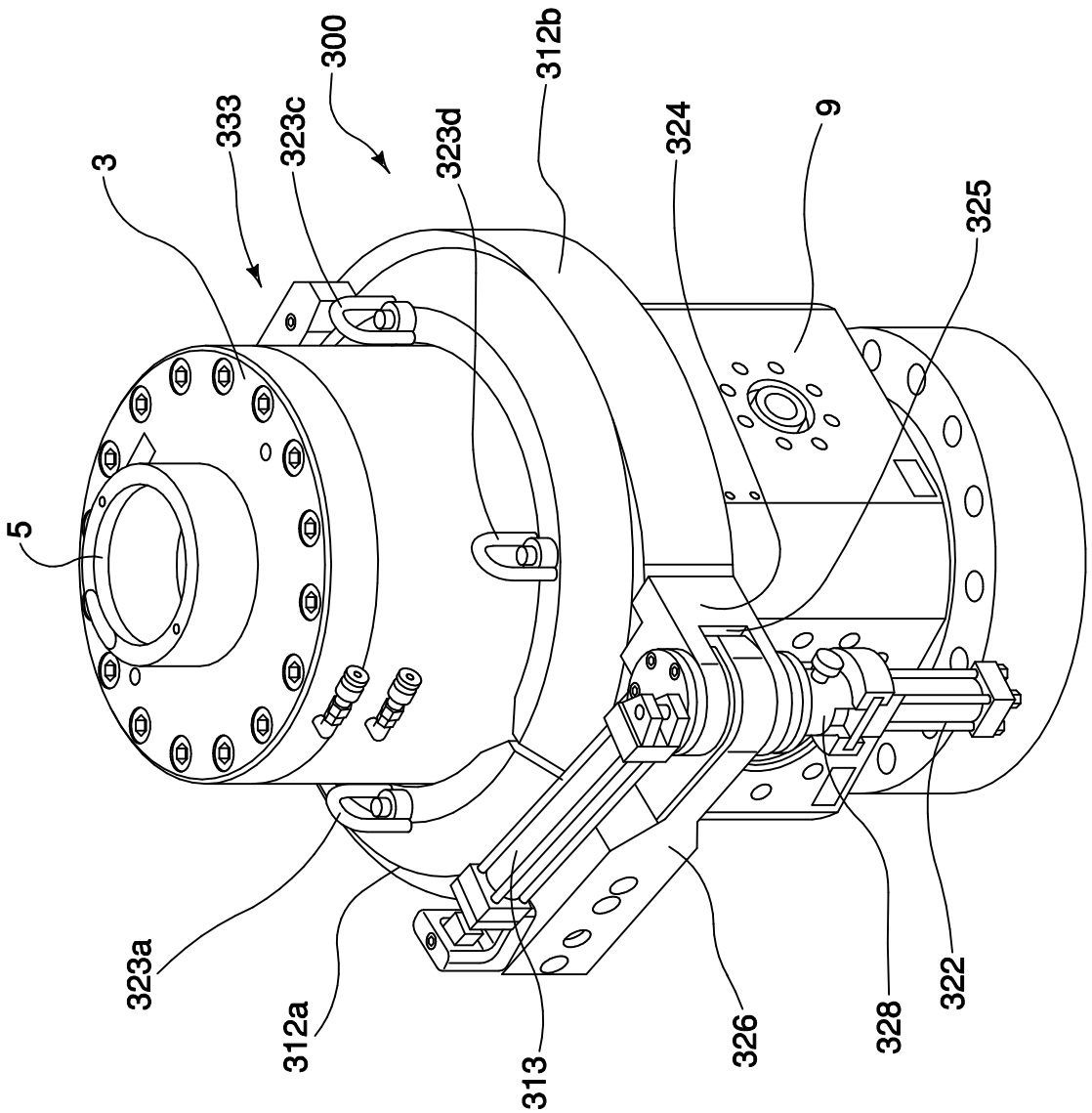


Fig. 9A

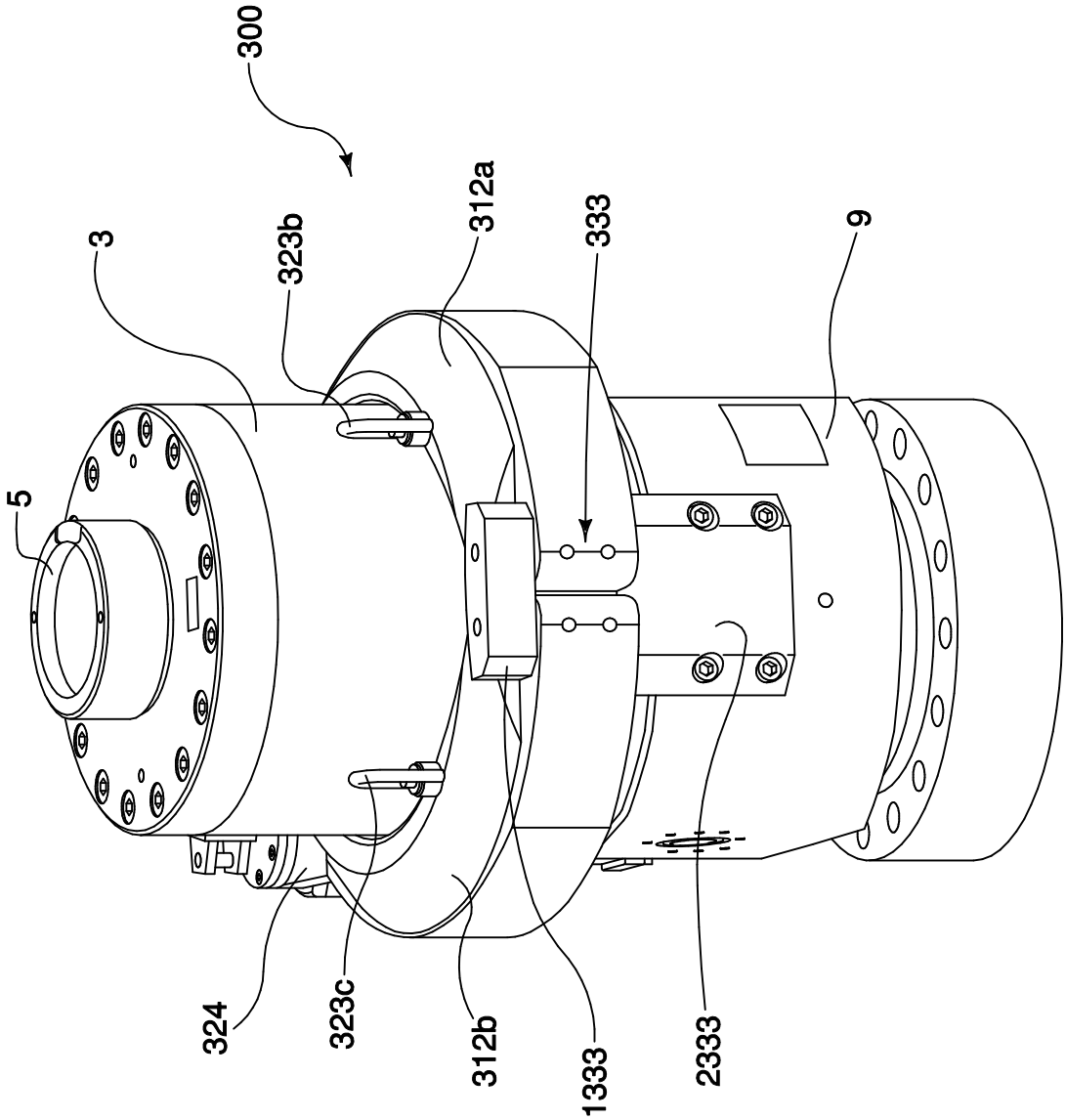


Fig. 9B

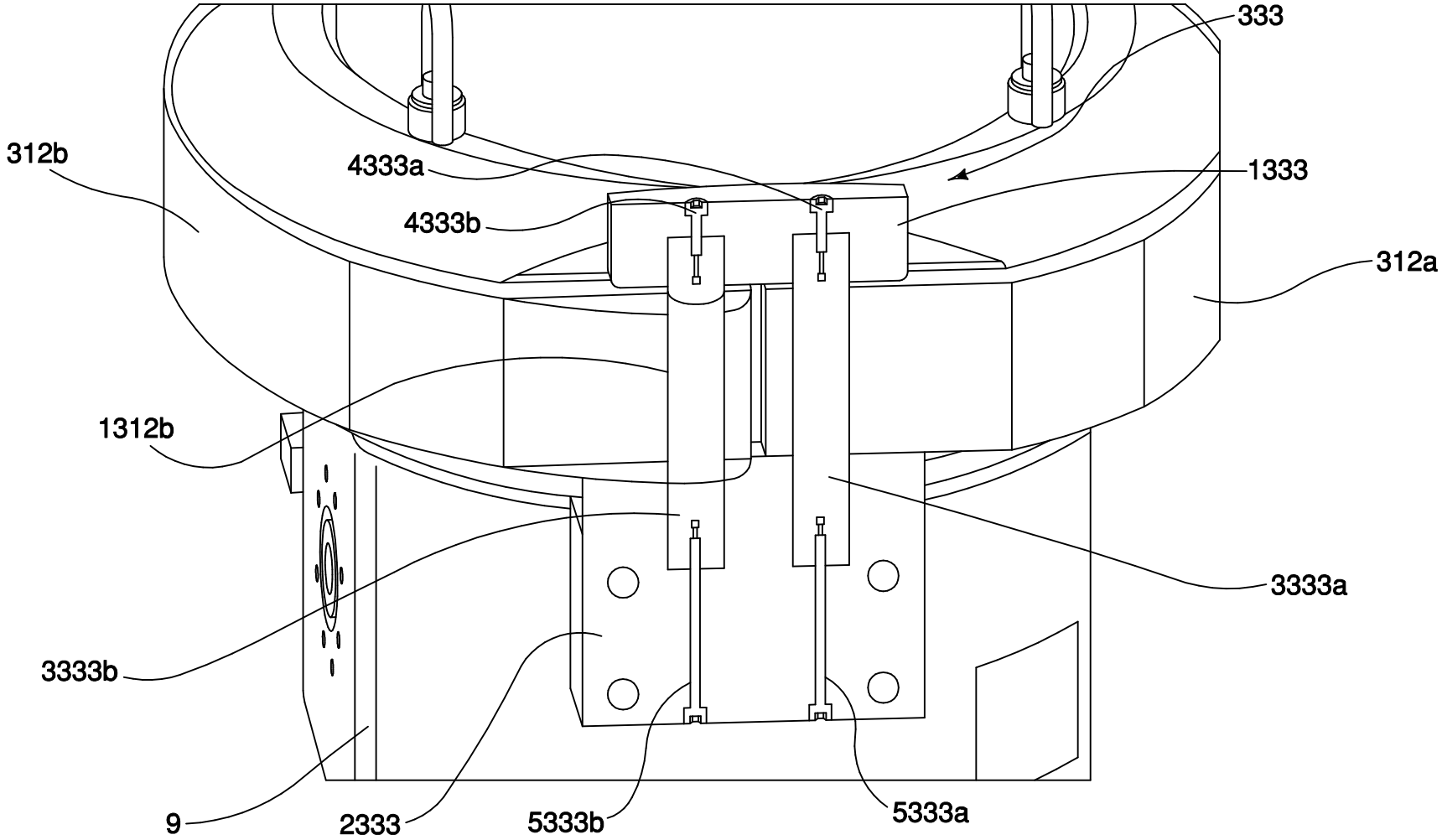

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Fig. 10

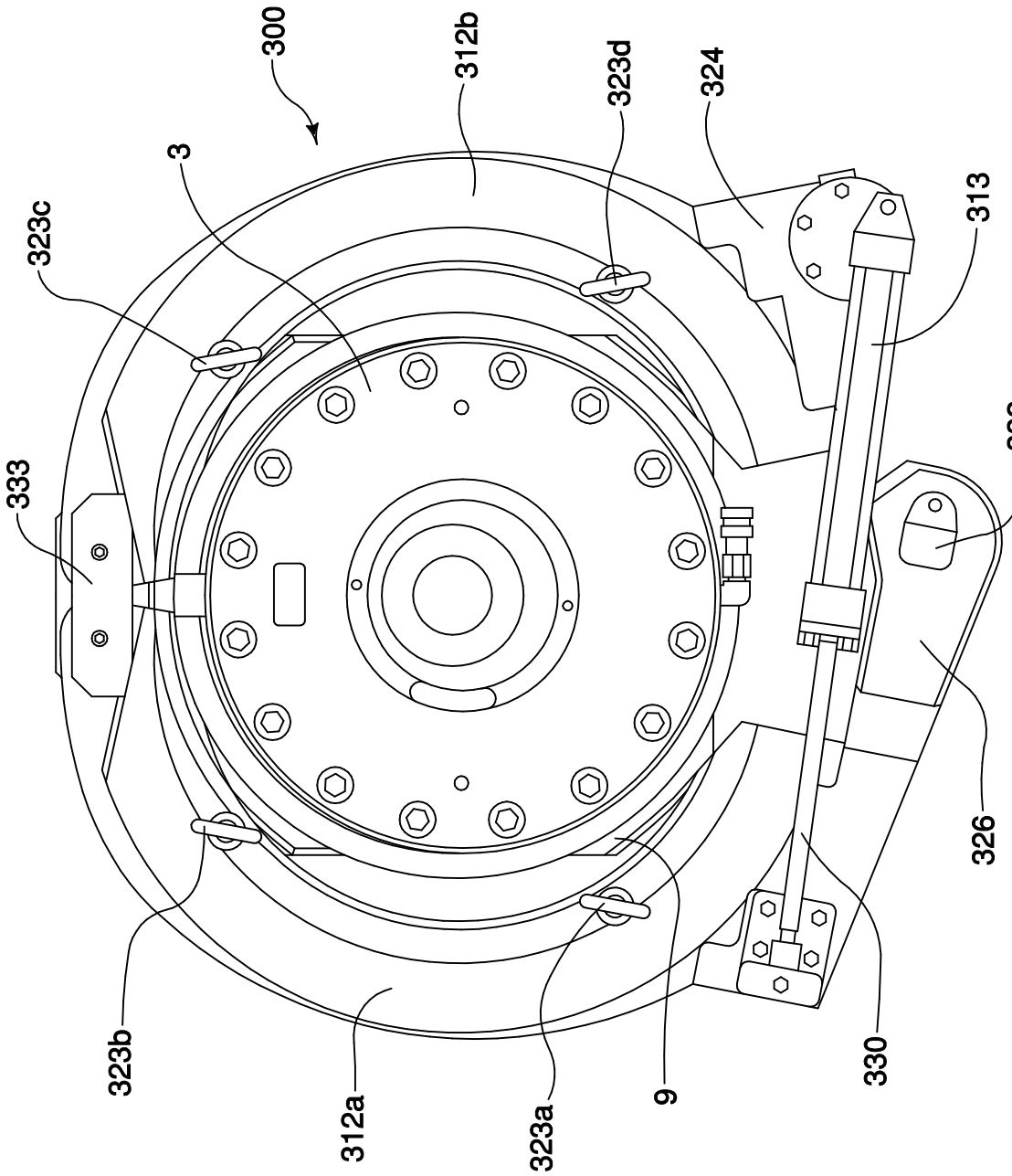


Fig. 11

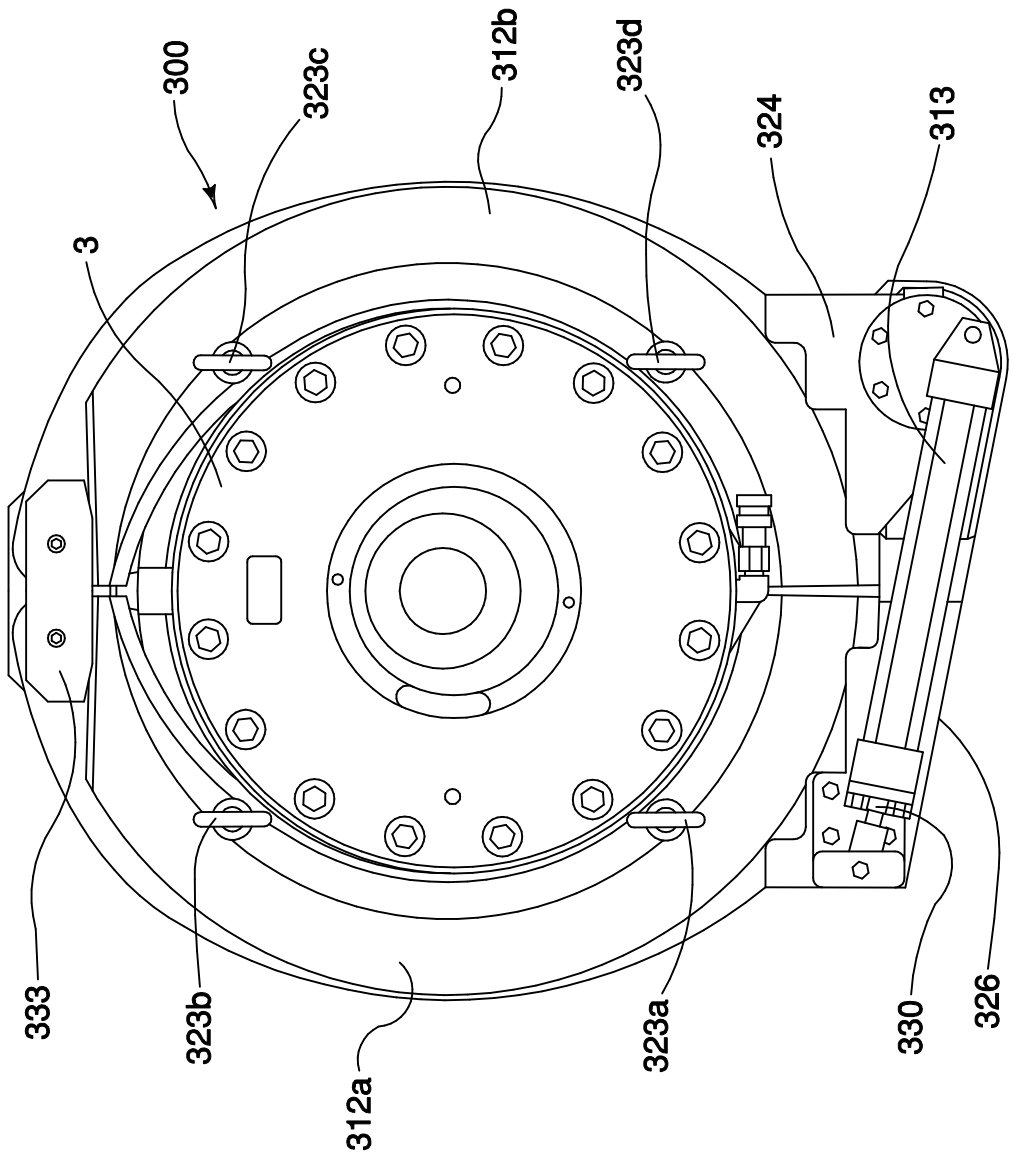


Fig. 12

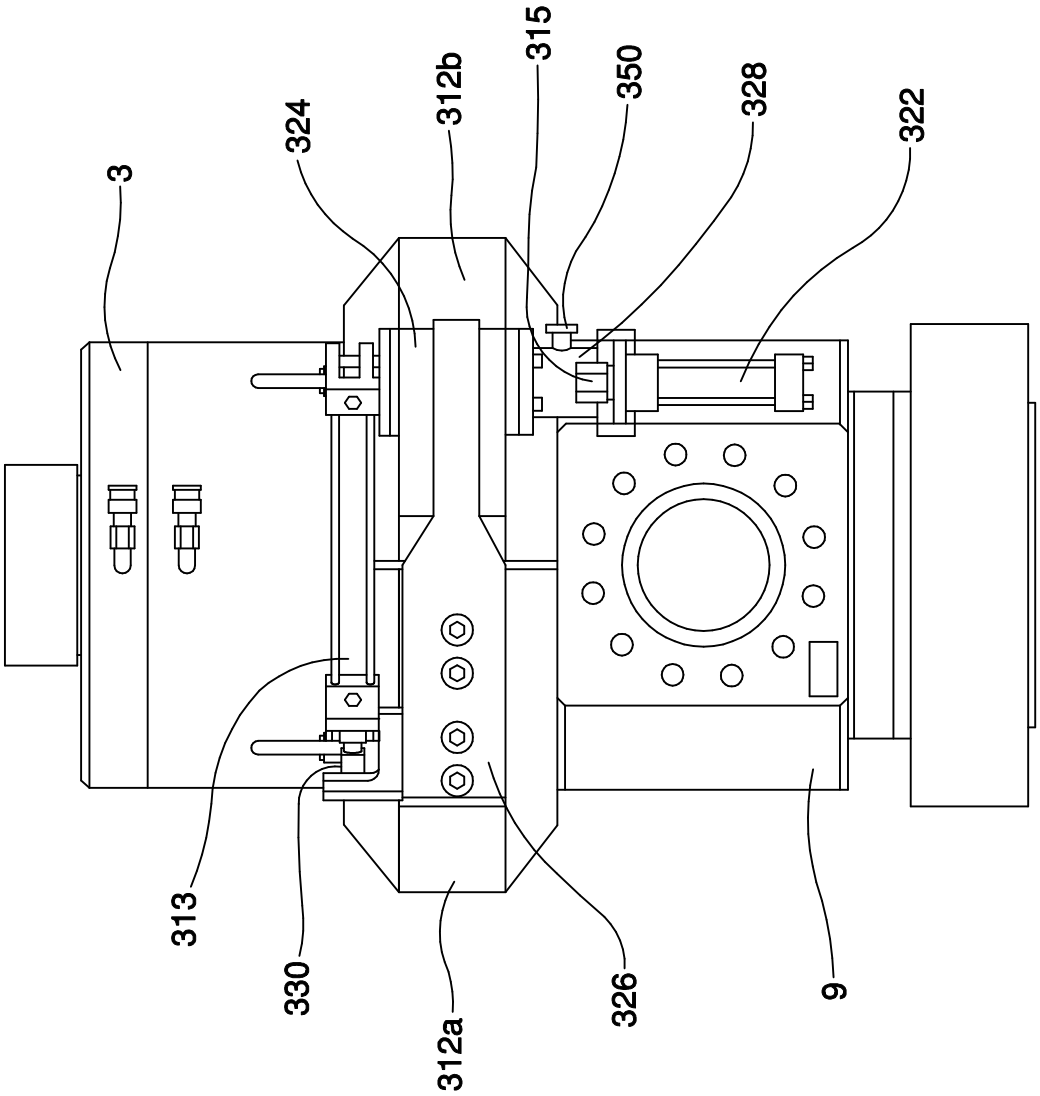


Fig. 13

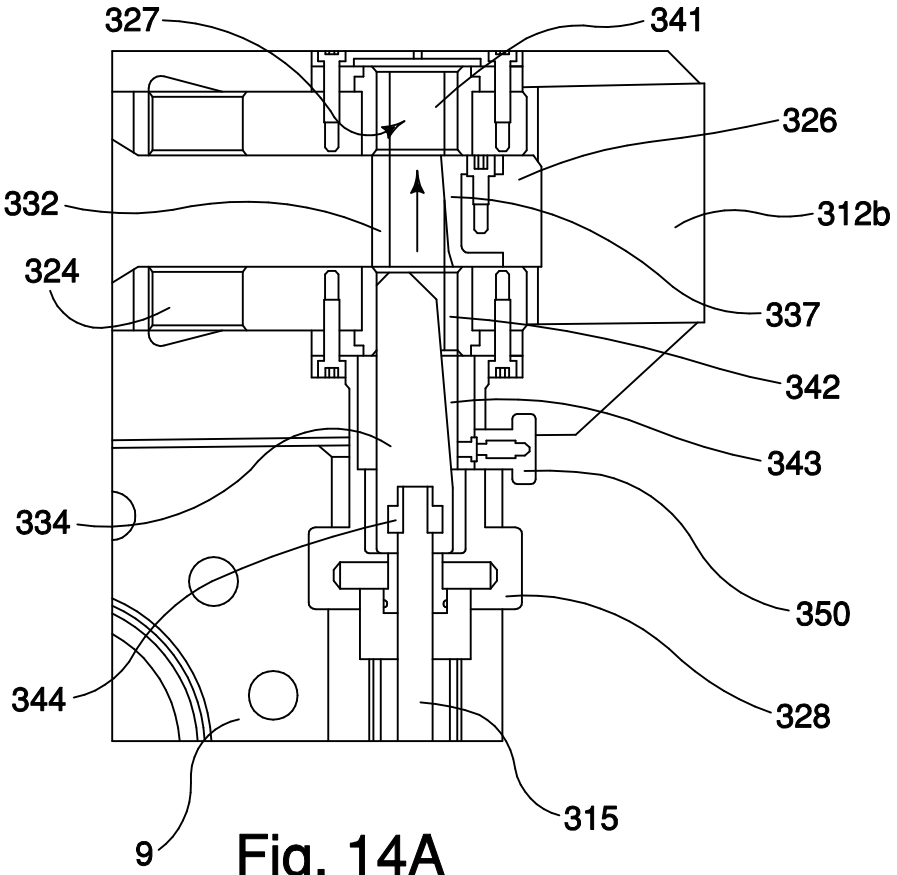


Fig. 14A

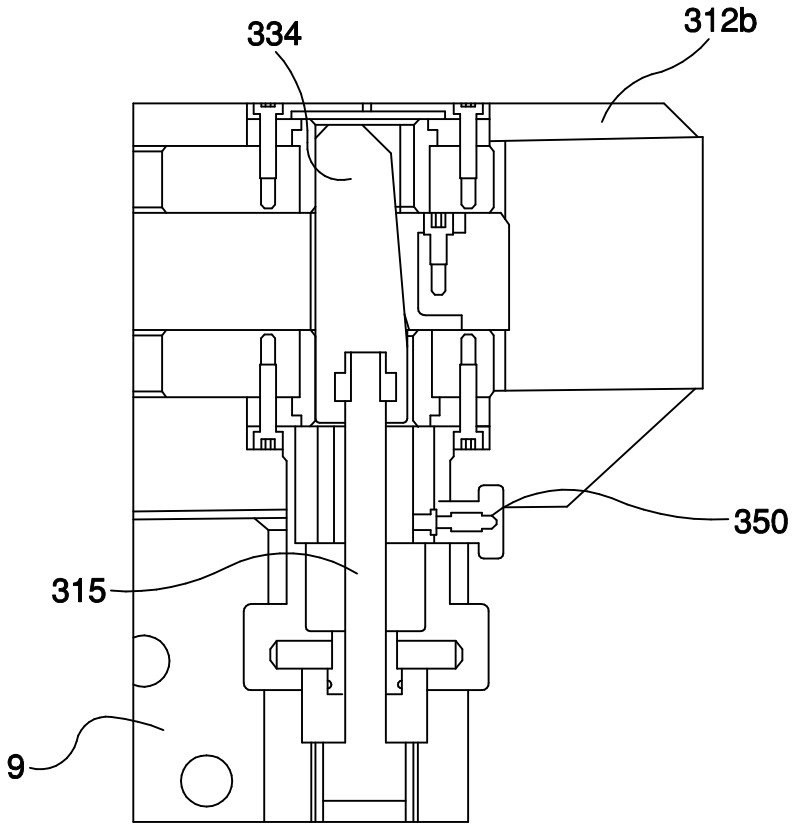


Fig. 14B

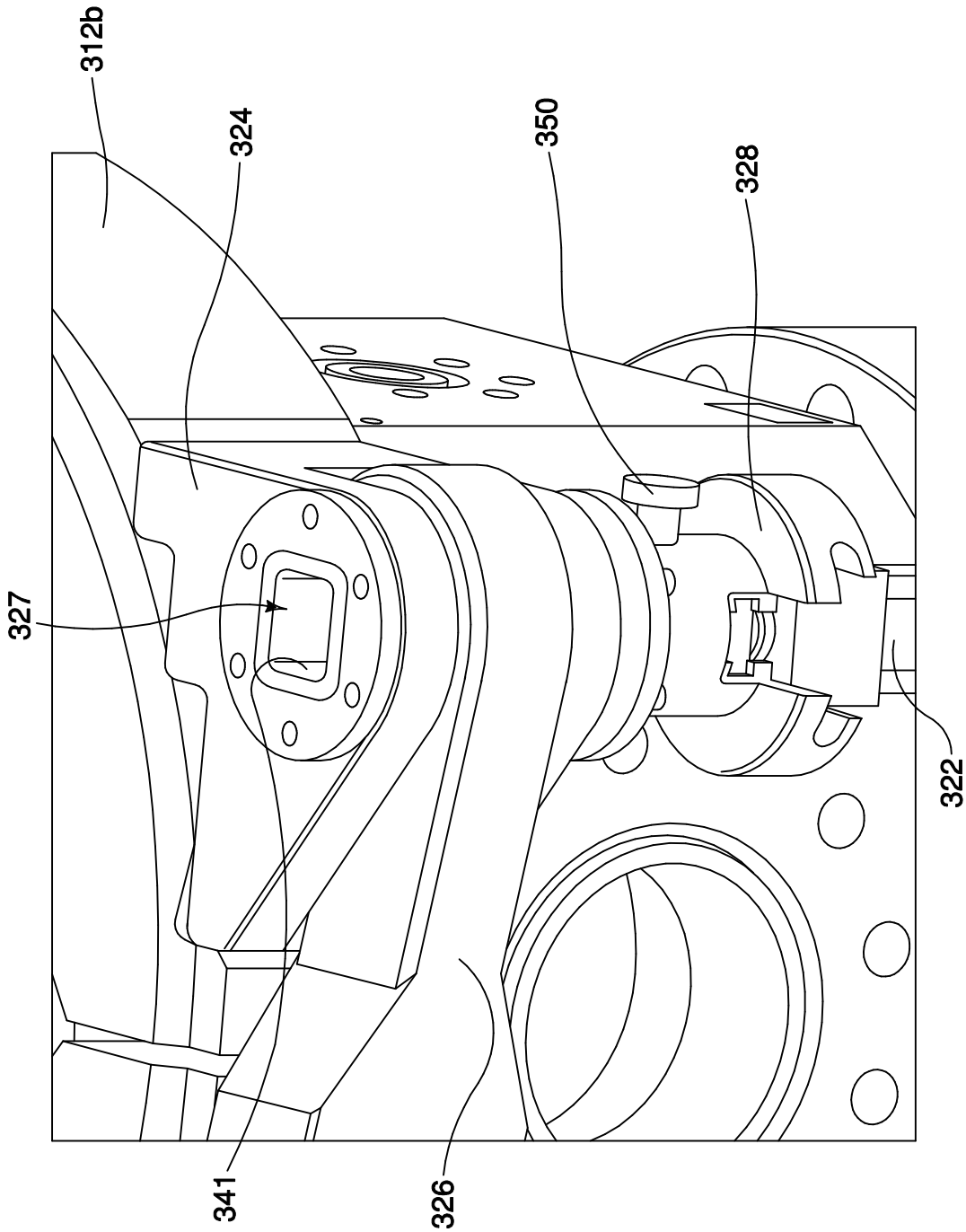


Fig. 15

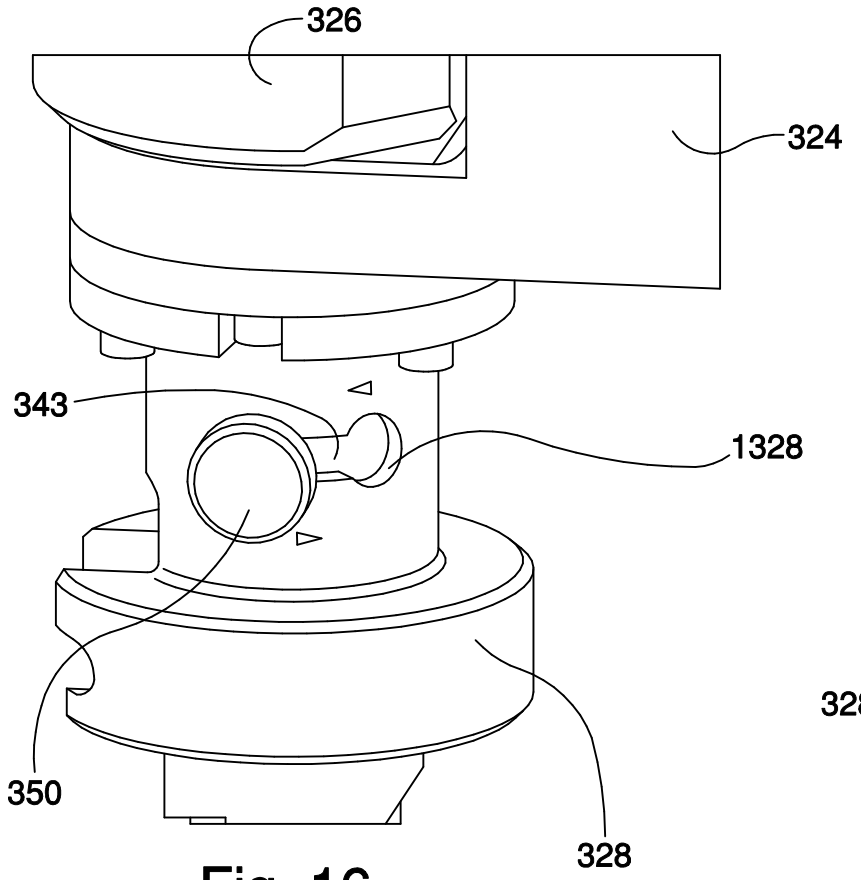


Fig. 16

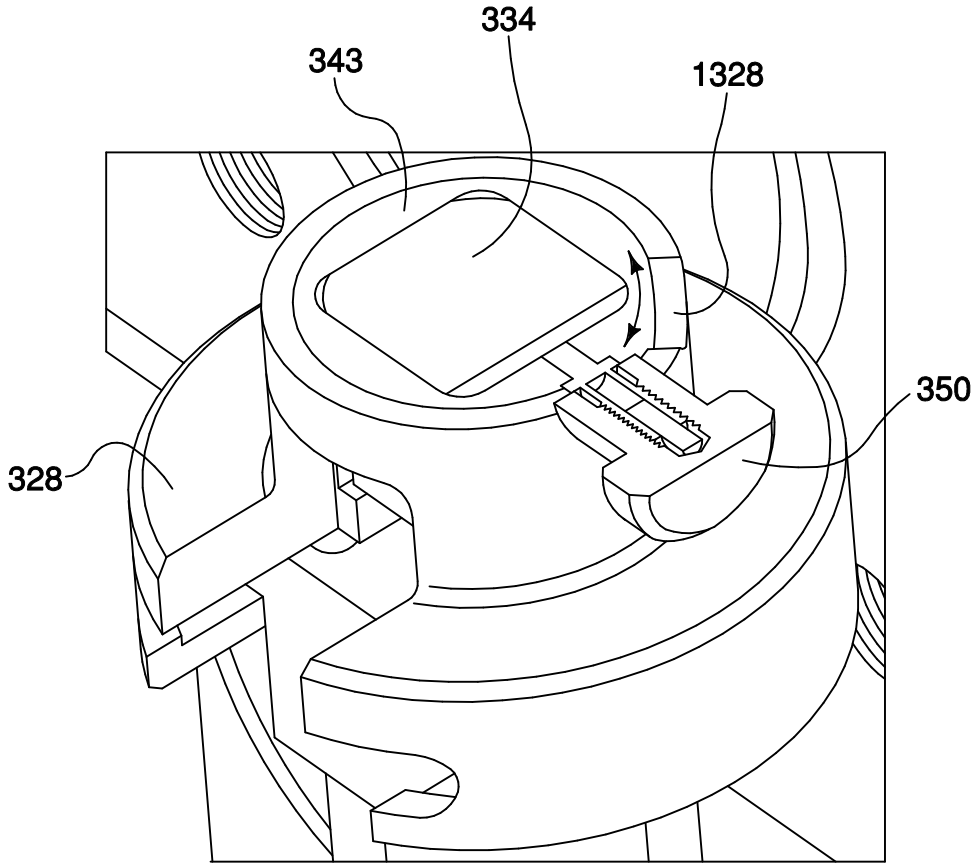


Fig. 17

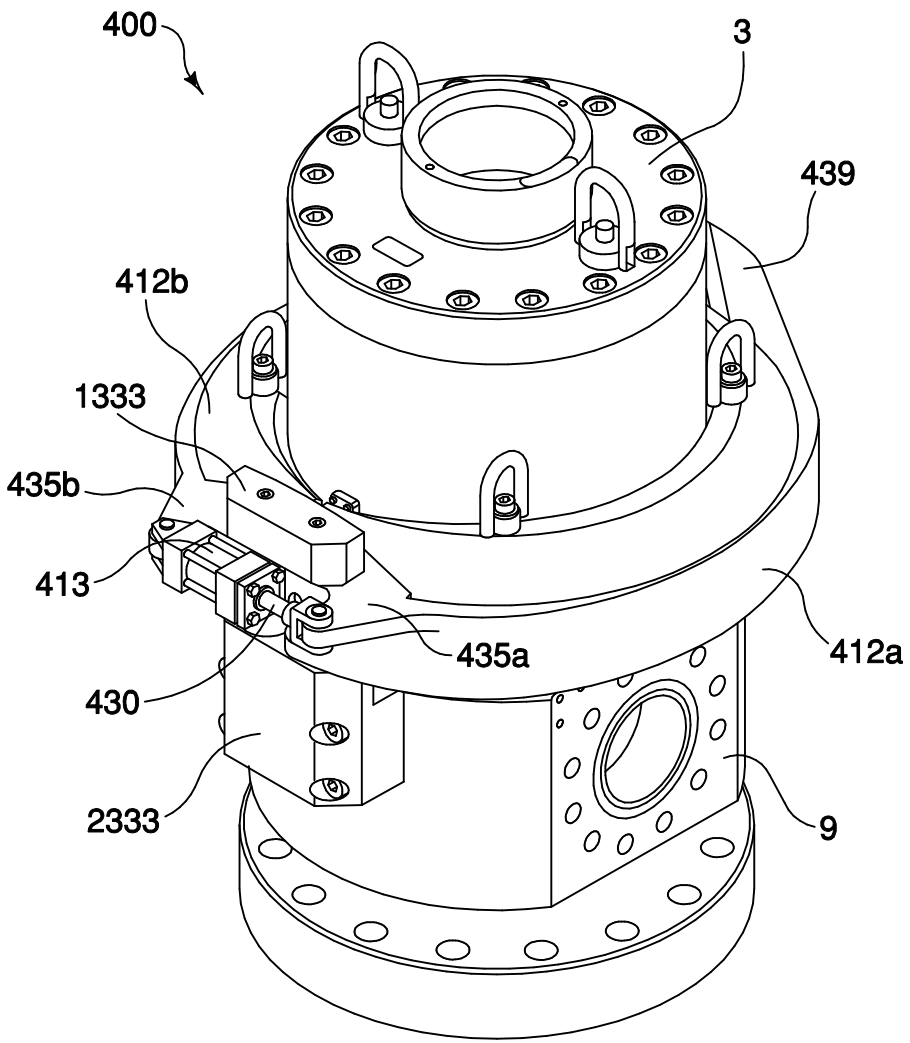


Fig. 18A

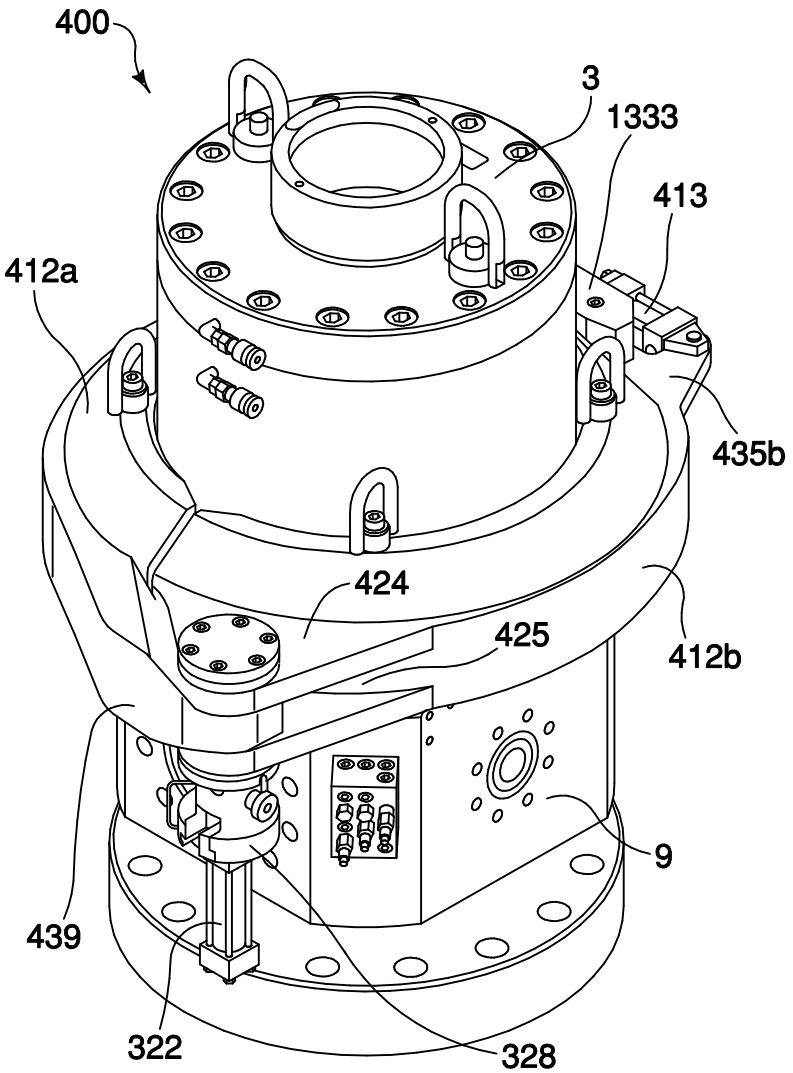


Fig. 18B

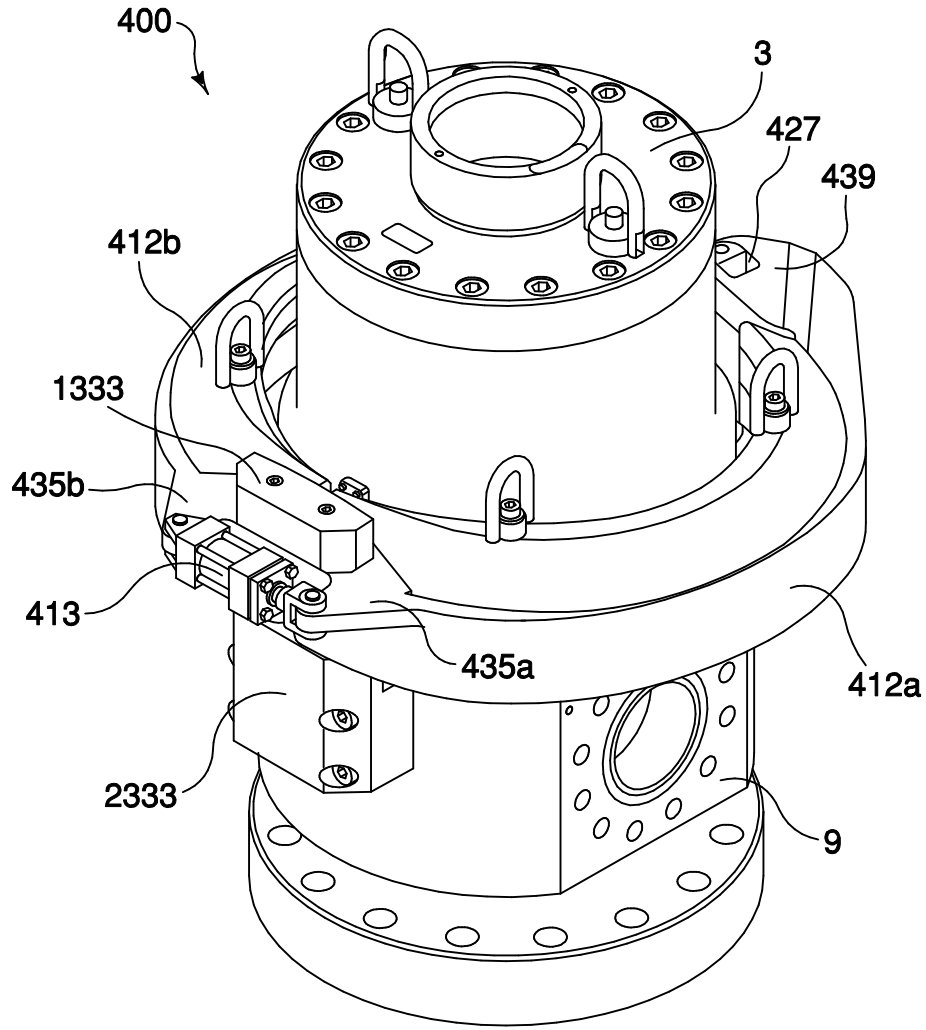


Fig. 19A

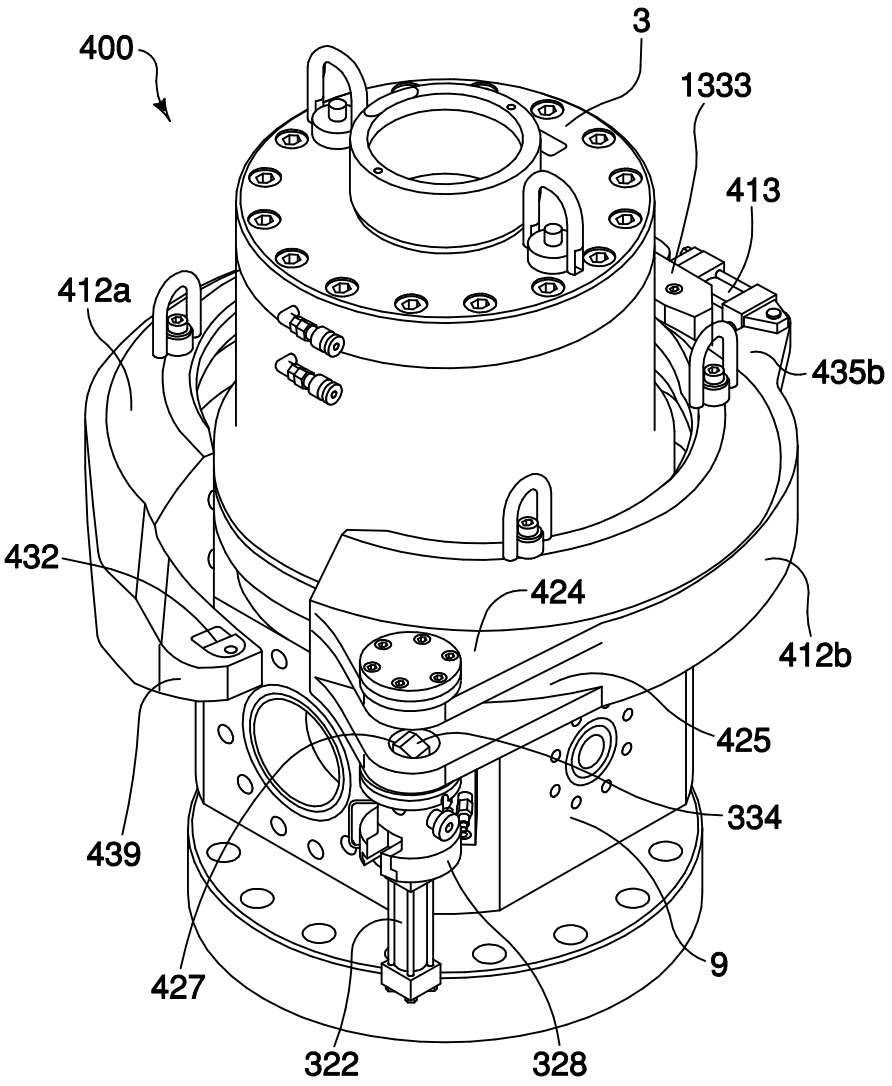


Fig. 19B

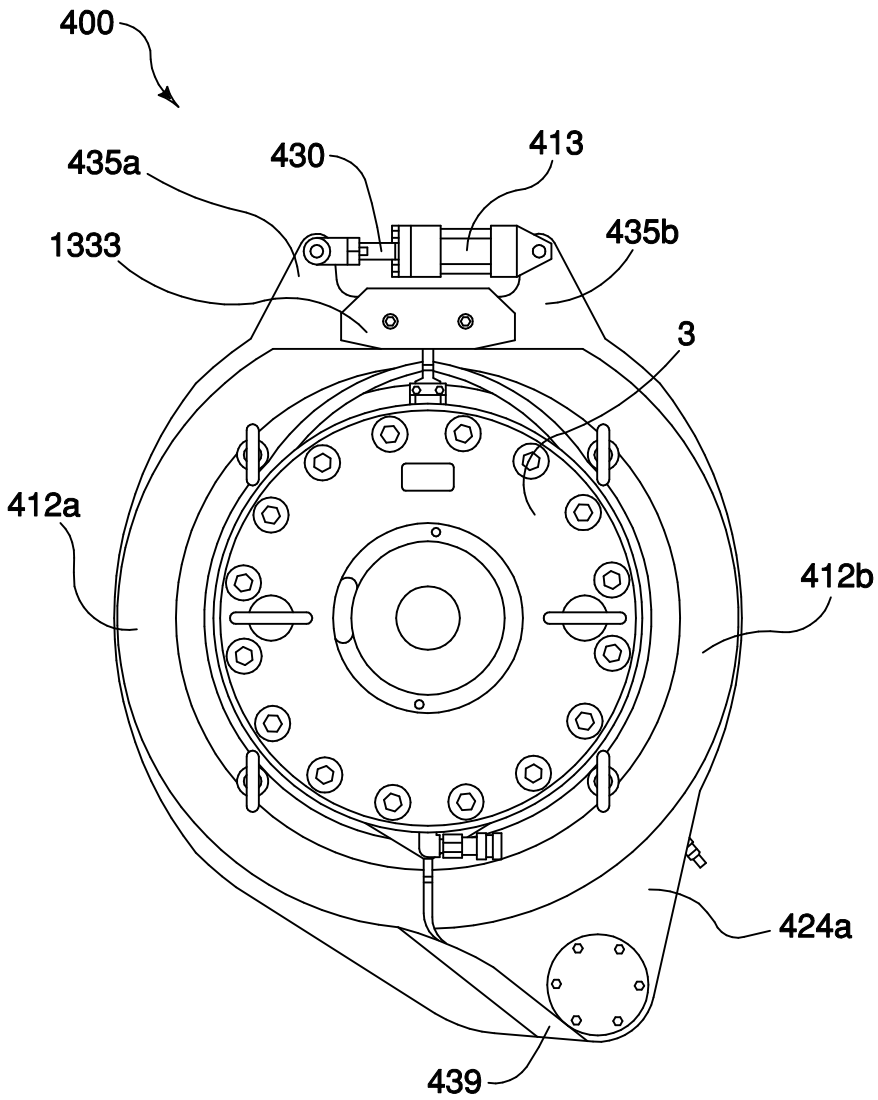


Fig. 20A

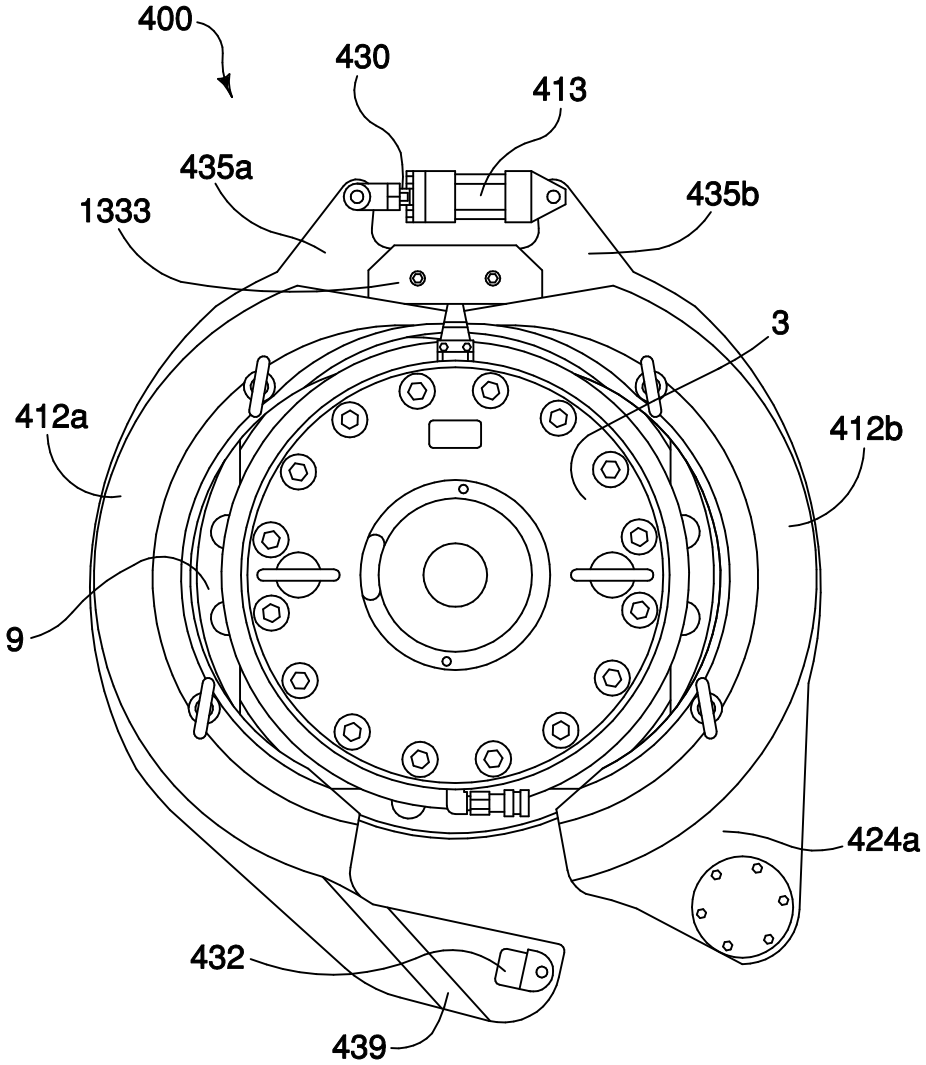


Fig. 20B

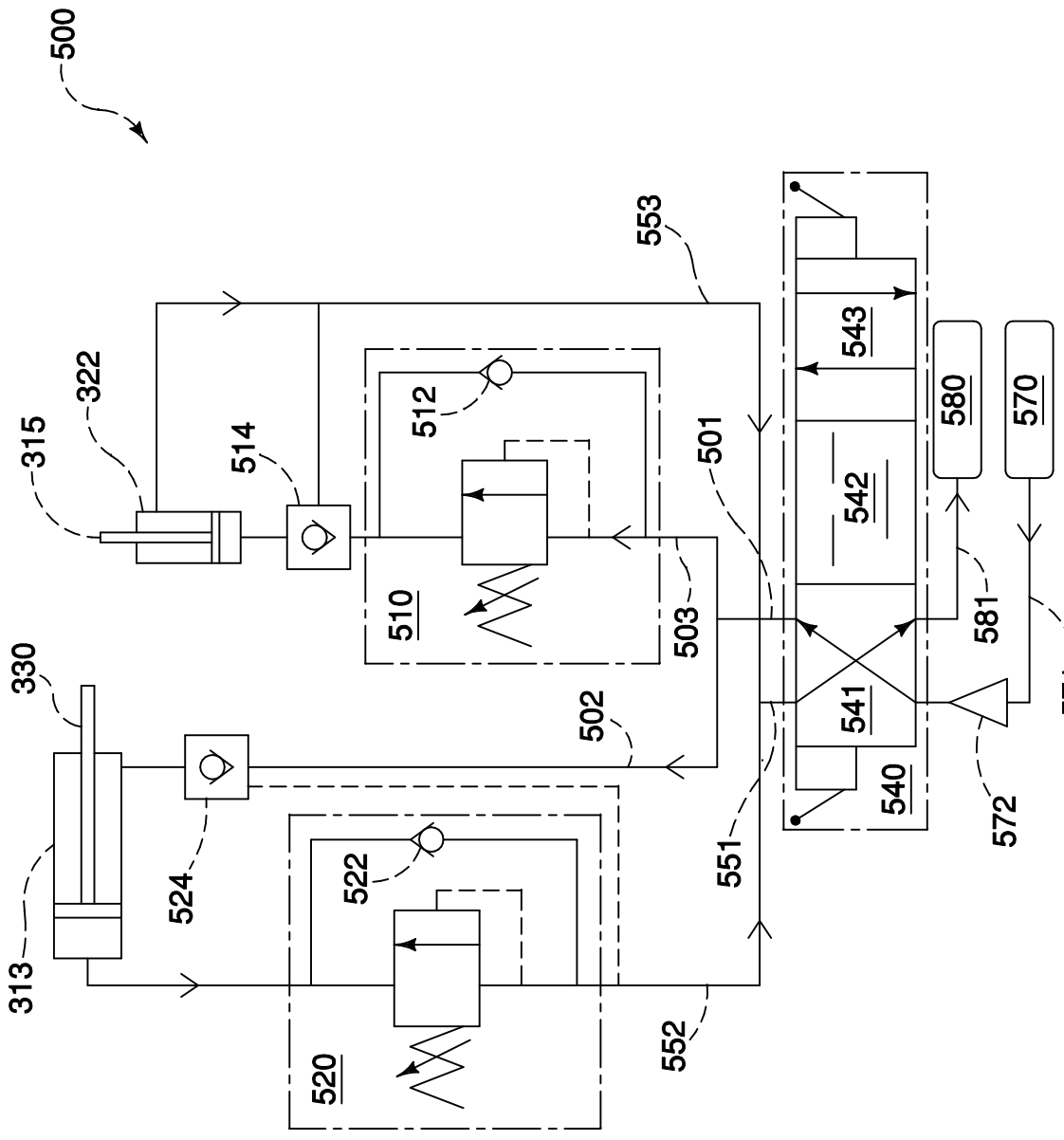

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Fig. 21A

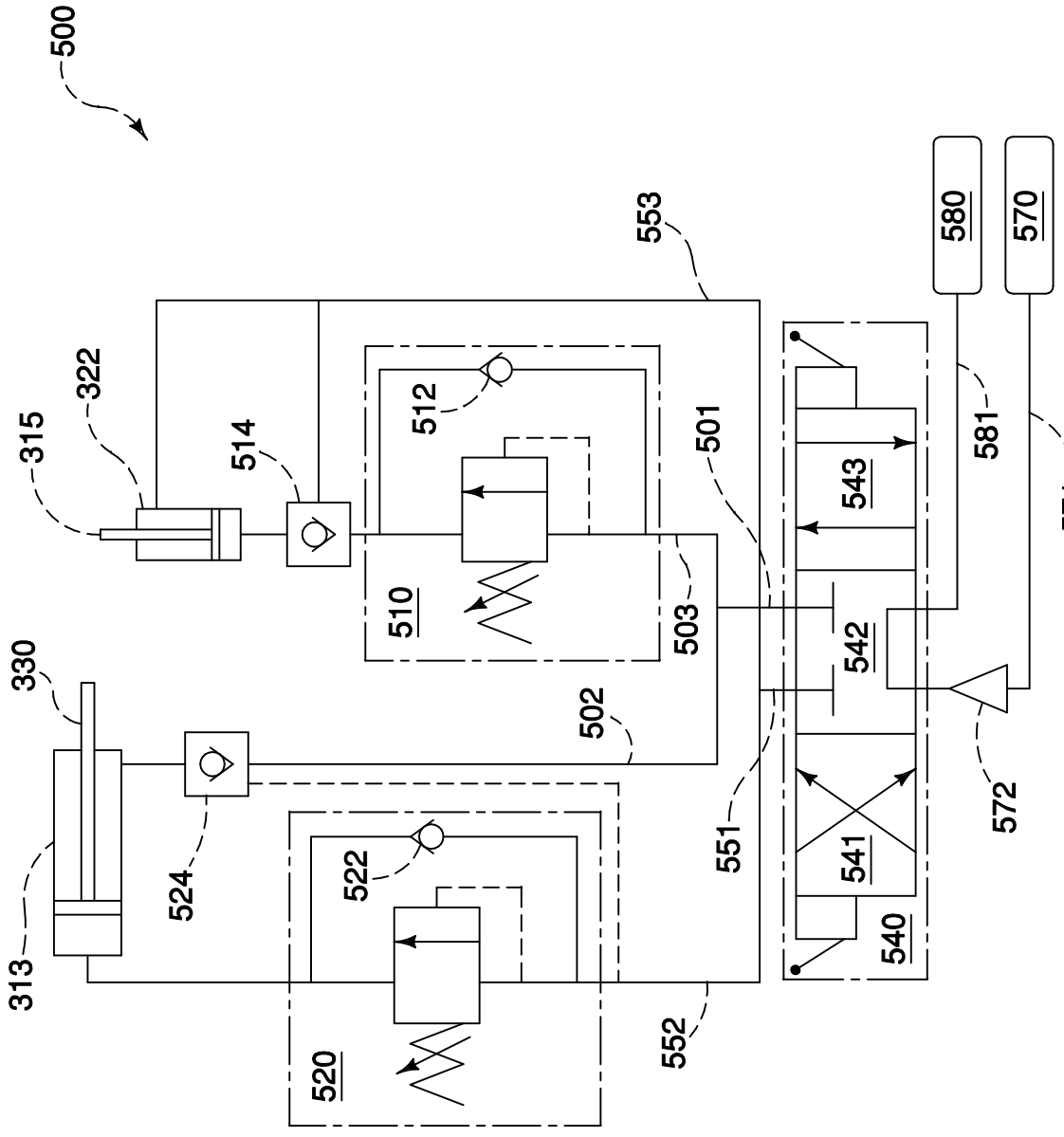

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Fig. 21B

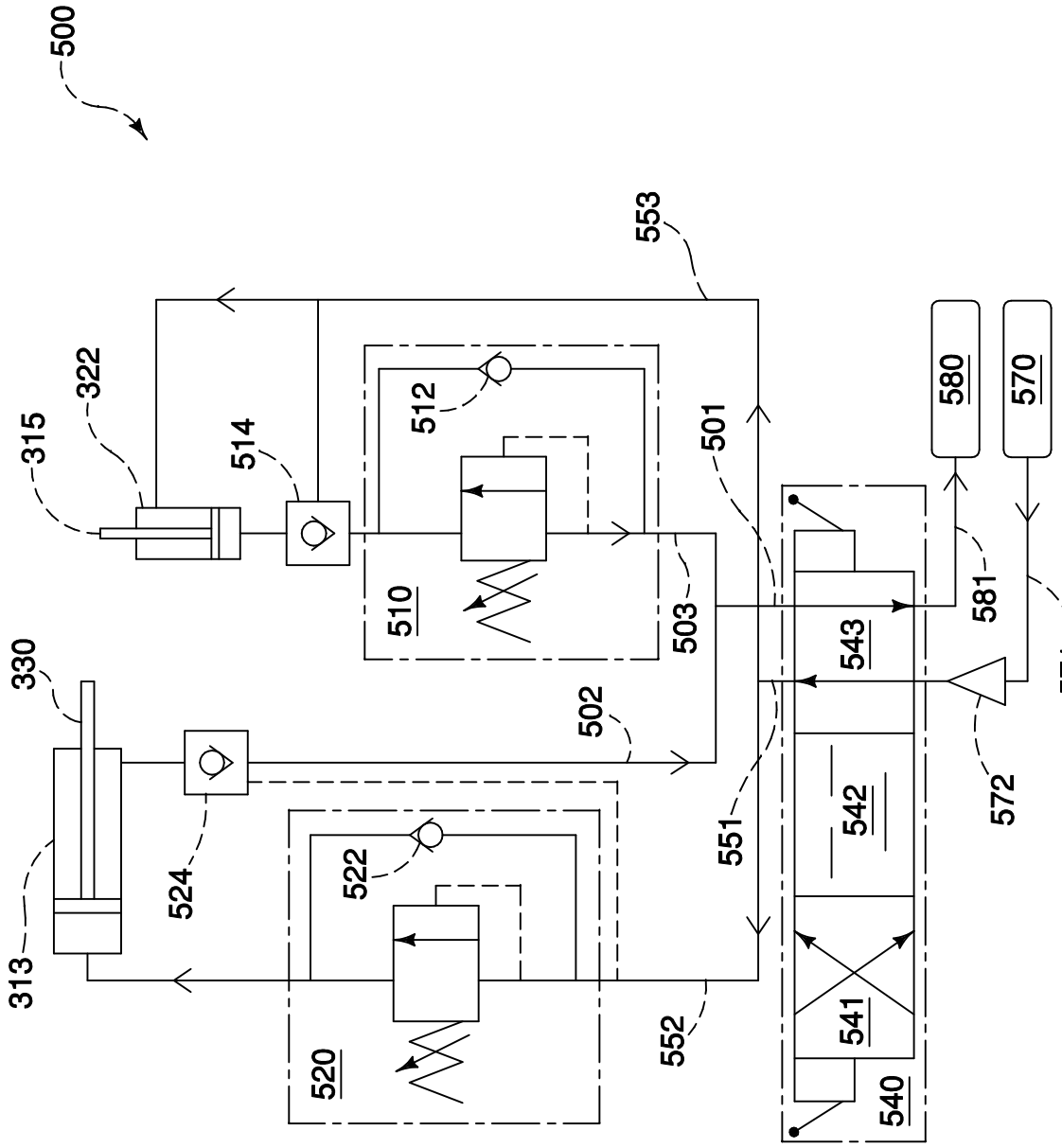

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Fig. 21C