

ELD Capping Process

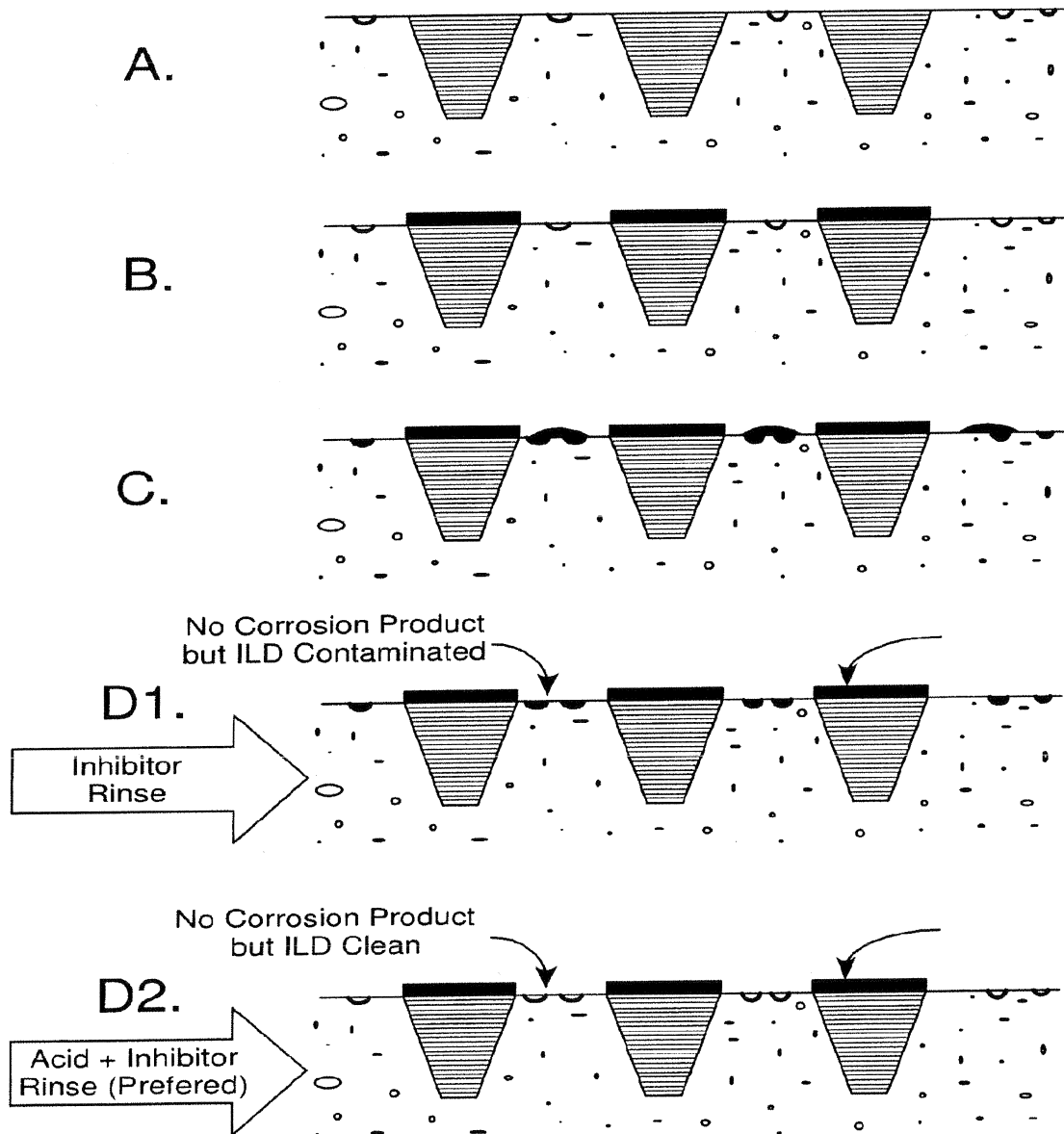


FIG. 1

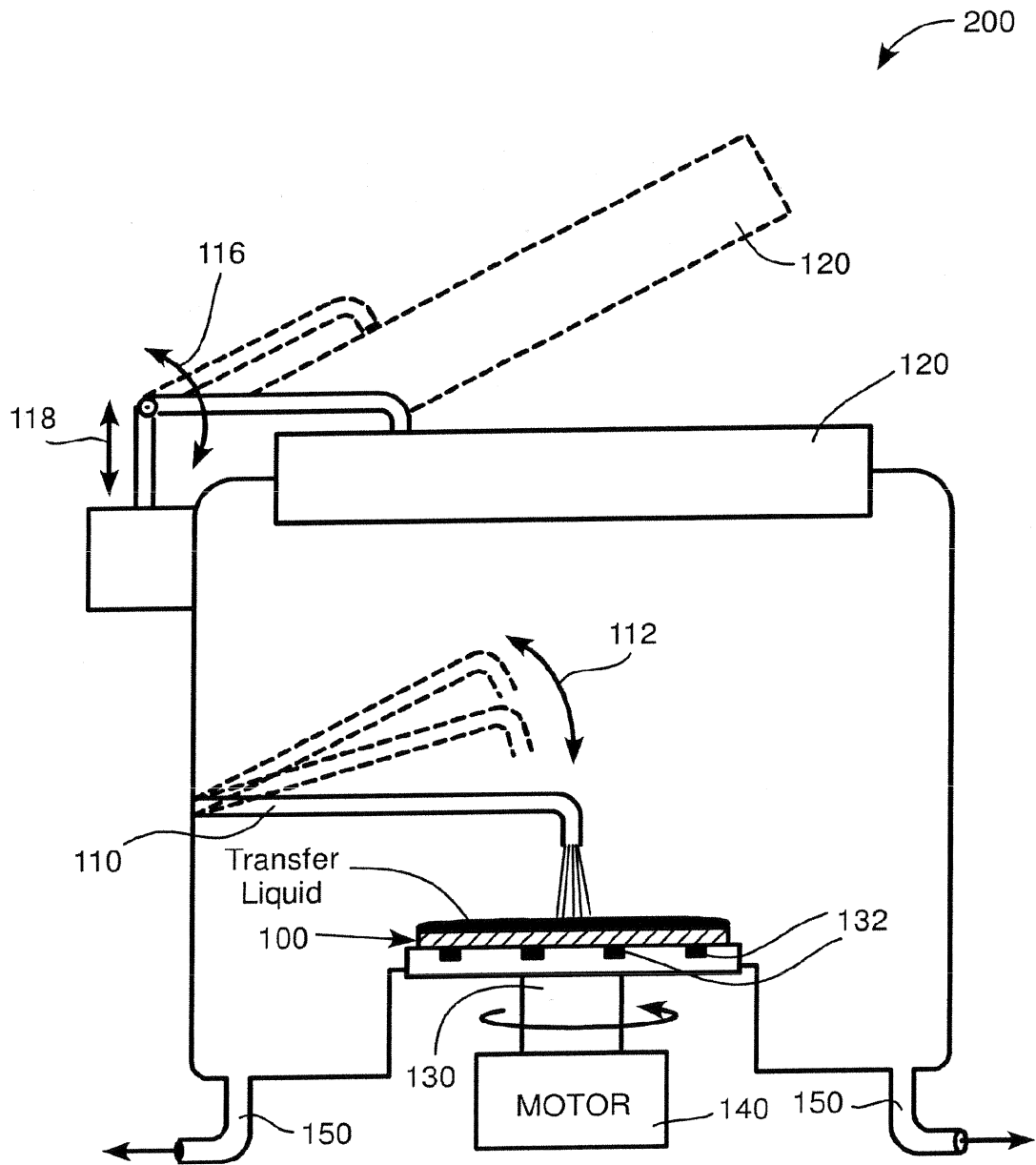


FIG. 2A

- Pre-clean Clean
- Post-rinse
- post-CMP and prep surface
- Deposit CoWP
- Passivate CoWP

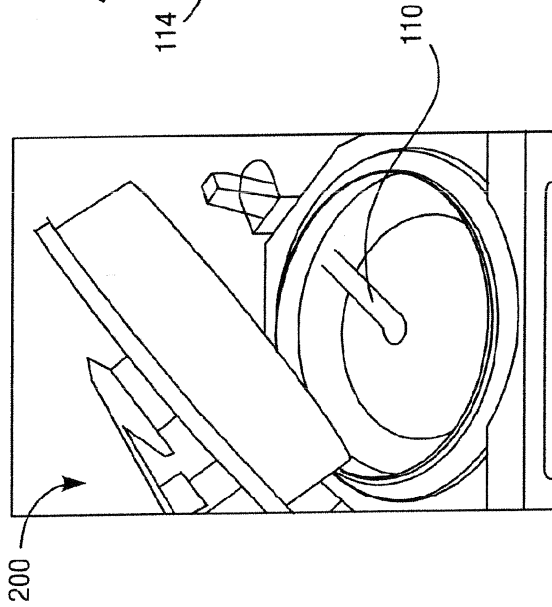


FIG. 2B

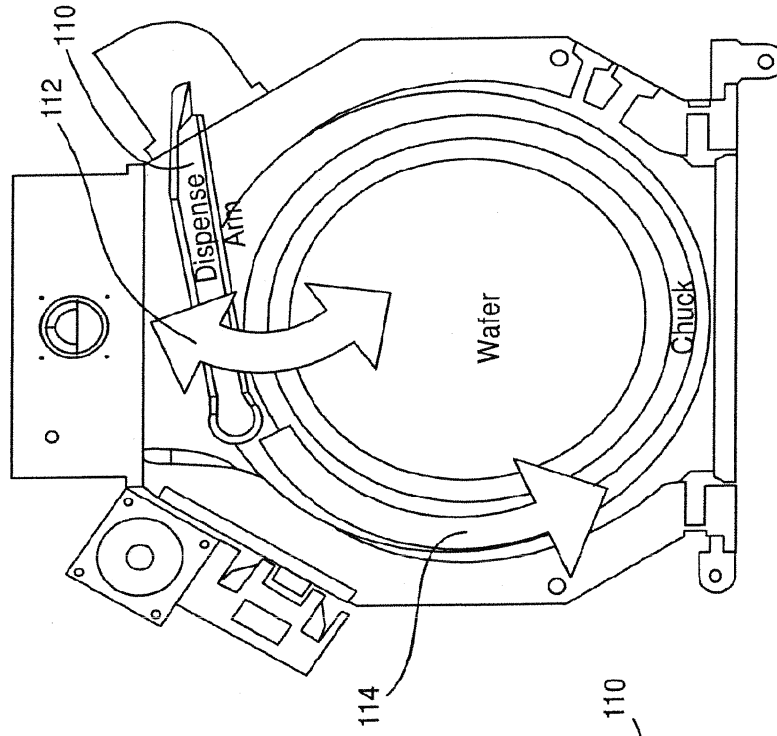


FIG. 2C

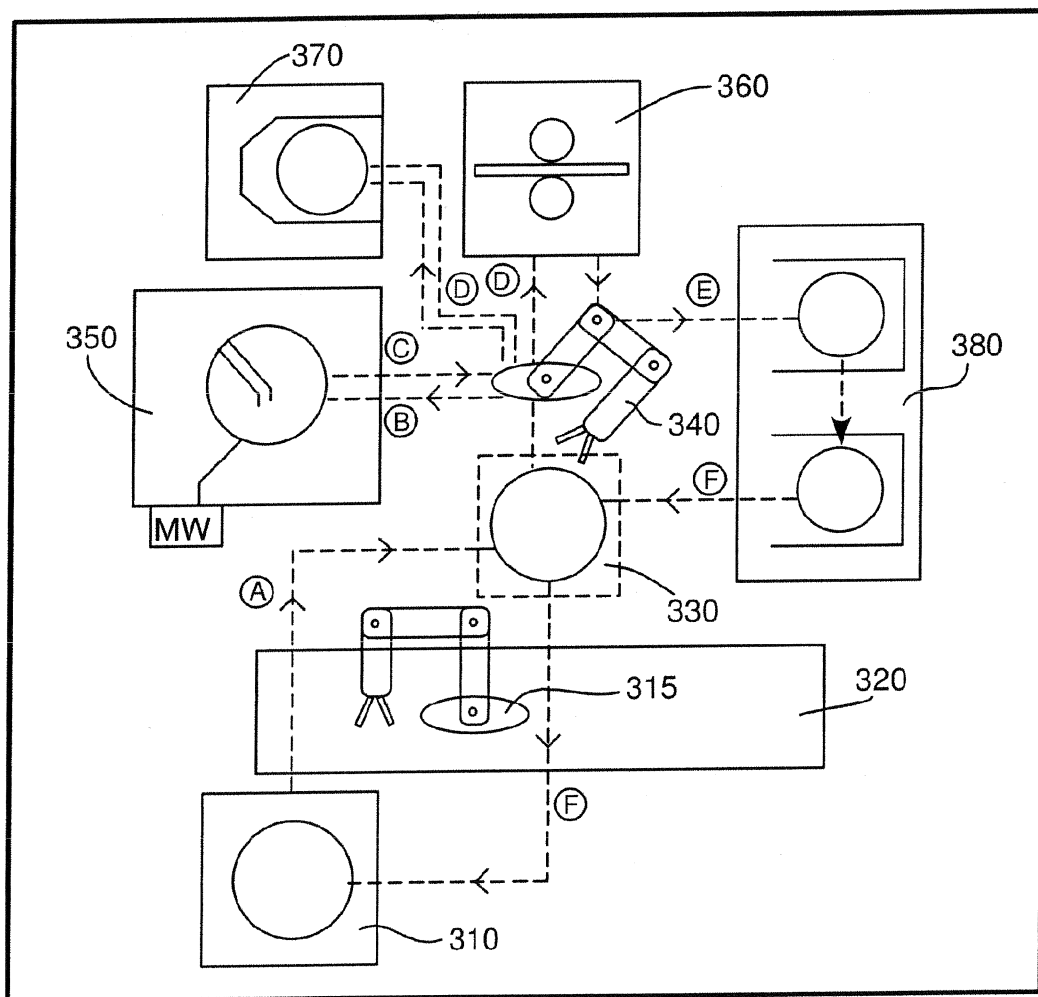


FIG. 3A

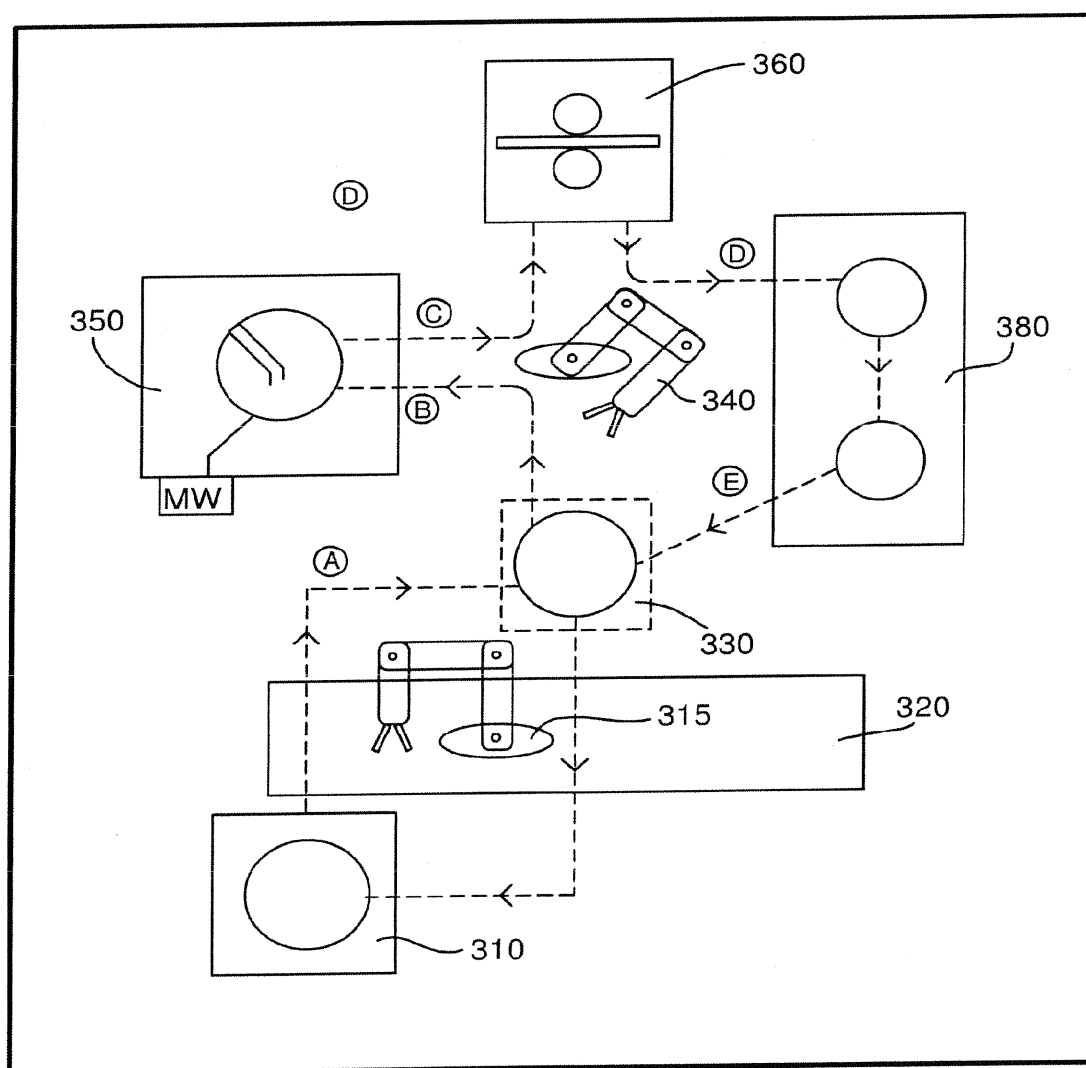


FIG. 3B

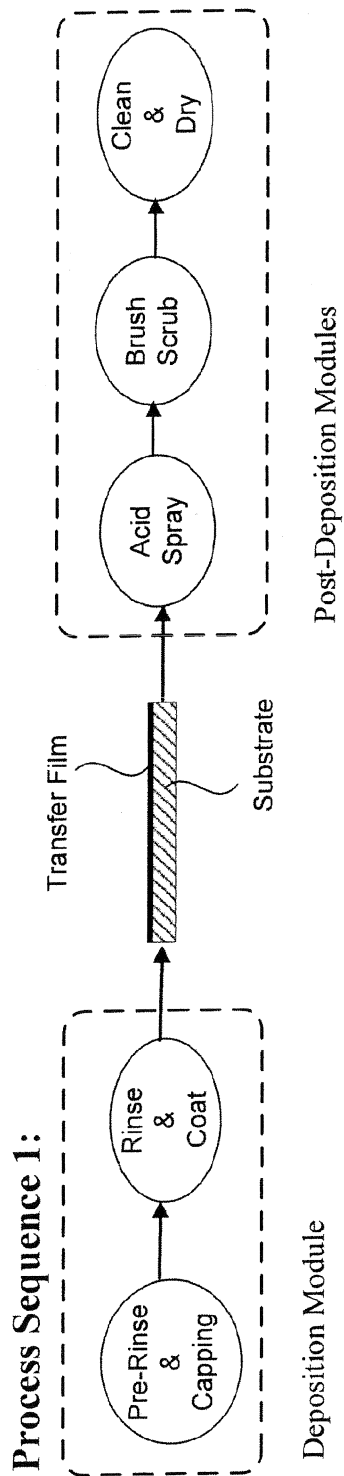


FIG. 4A

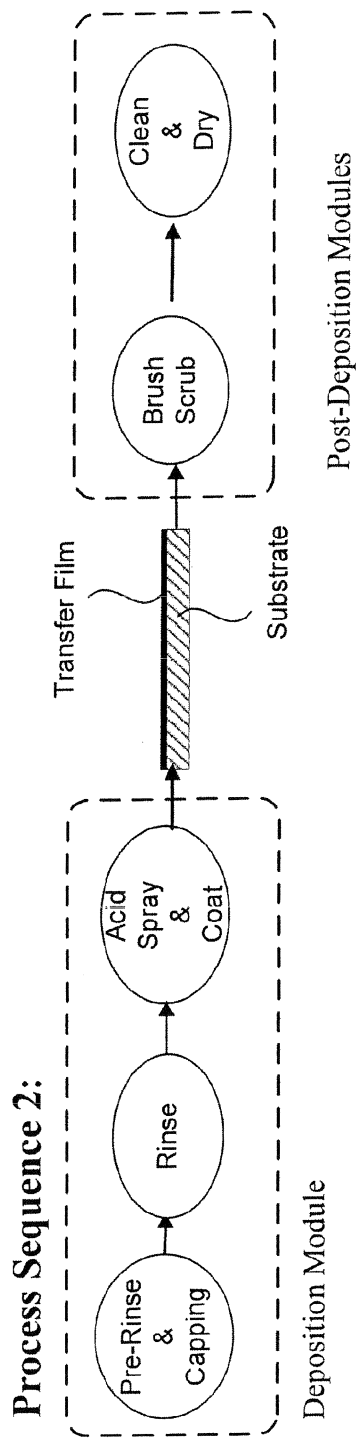
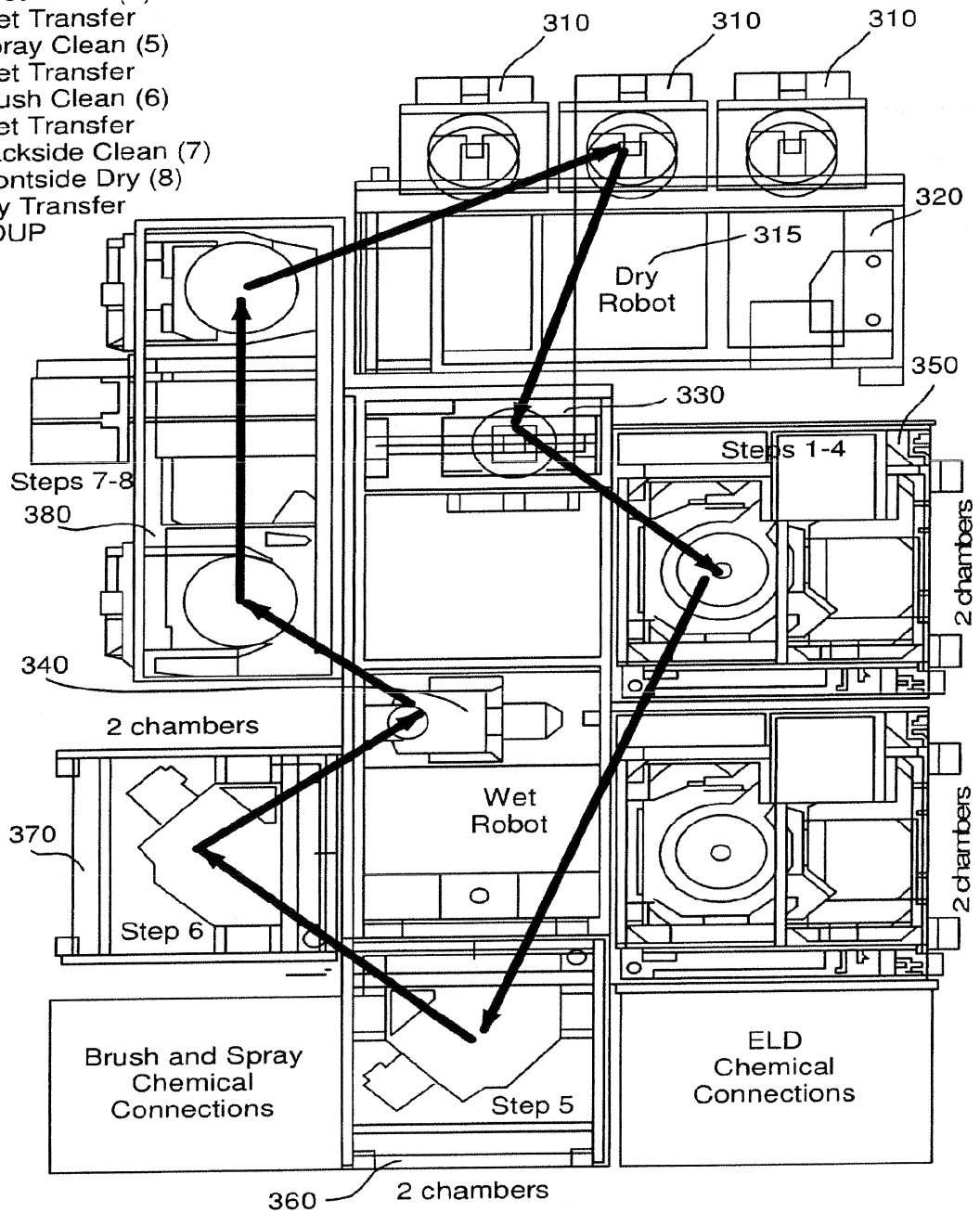


FIG. 4B

- FOUP
- Dry Transfer
- Pre-Clean (1)
- Pre-Clean (2)
- Co Deposition (3)
- Post-Rinse (4)
- Wet Transfer
- Spray Clean (5)
- Wet Transfer
- Brush Clean (6)
- Wet Transfer
- Backside Clean (7)
- Frontside Dry (8)
- Dry Transfer
- FOUP

FIG. 5A

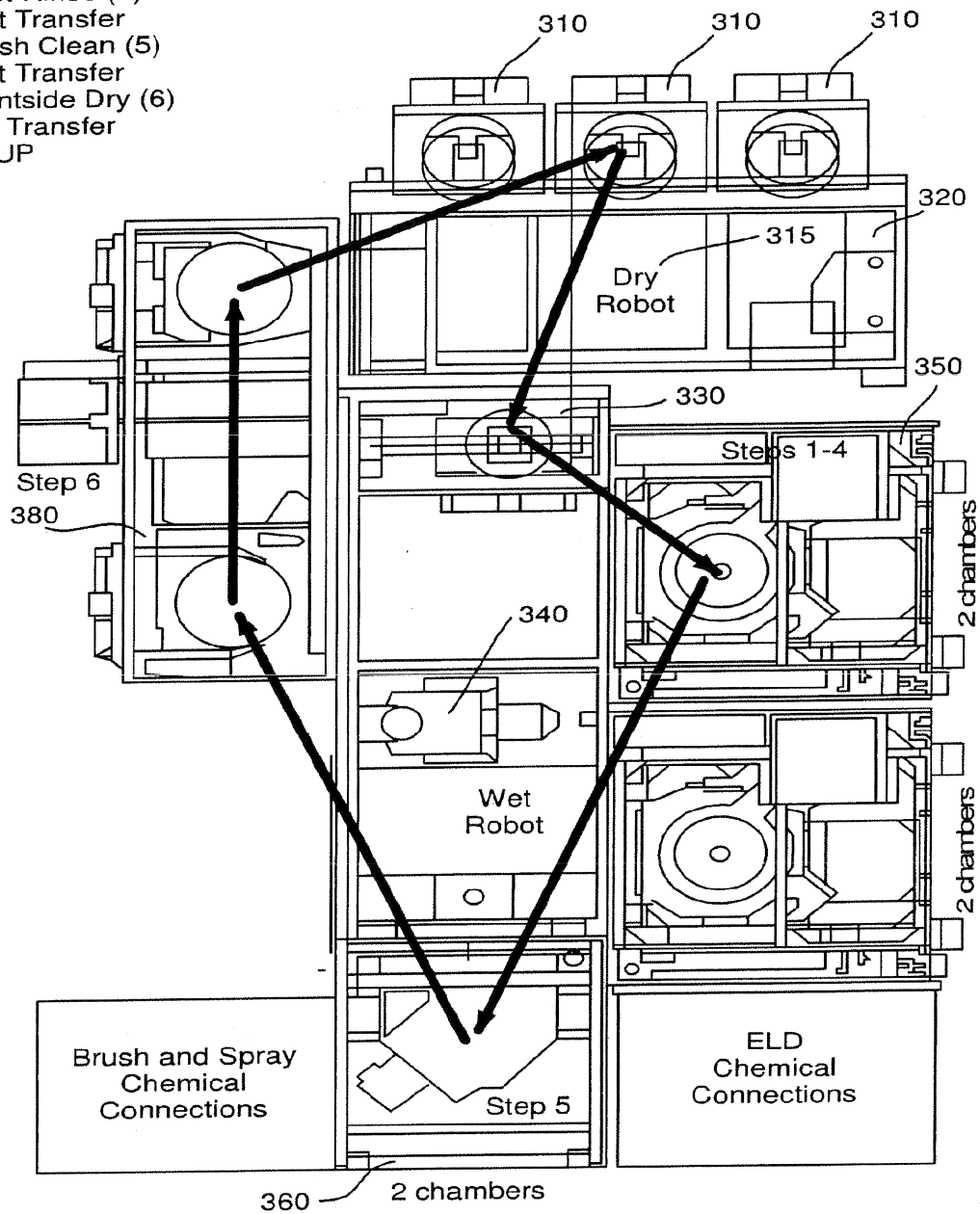
System throughput 50-60 WPH



- FOUN
- Dry Transfer
- Pre-Clean (1)
- Pre-Clean (2)
- Co Deposition (3)
- Post-Rinse (4)
- Wet Transfer
- Brush Clean (5)
- Wet Transfer
- Frontside Dry (6)
- Dry Transfer
- FOUN

FIG. 5B

System throughput 50-60 WPH



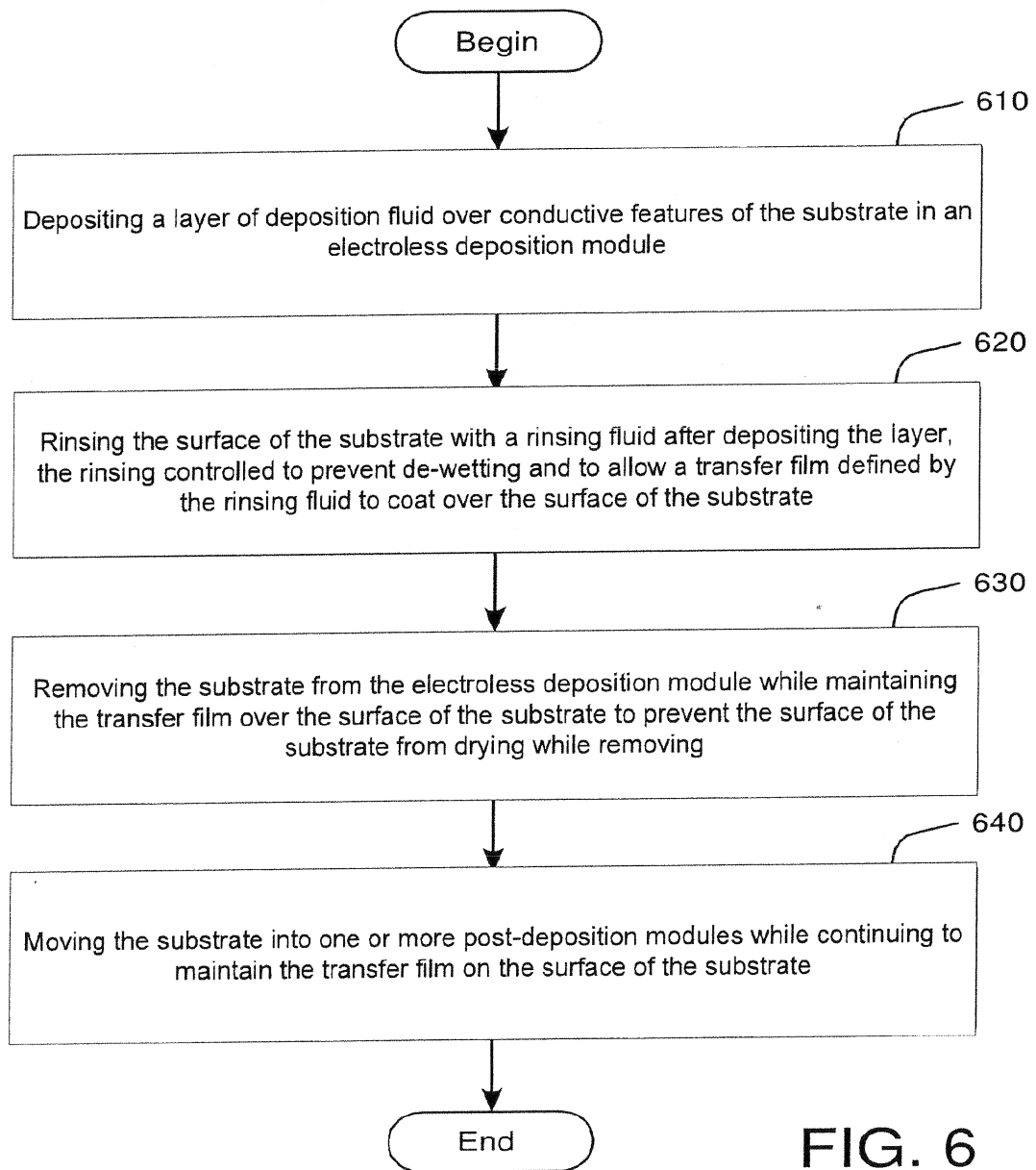


FIG. 6

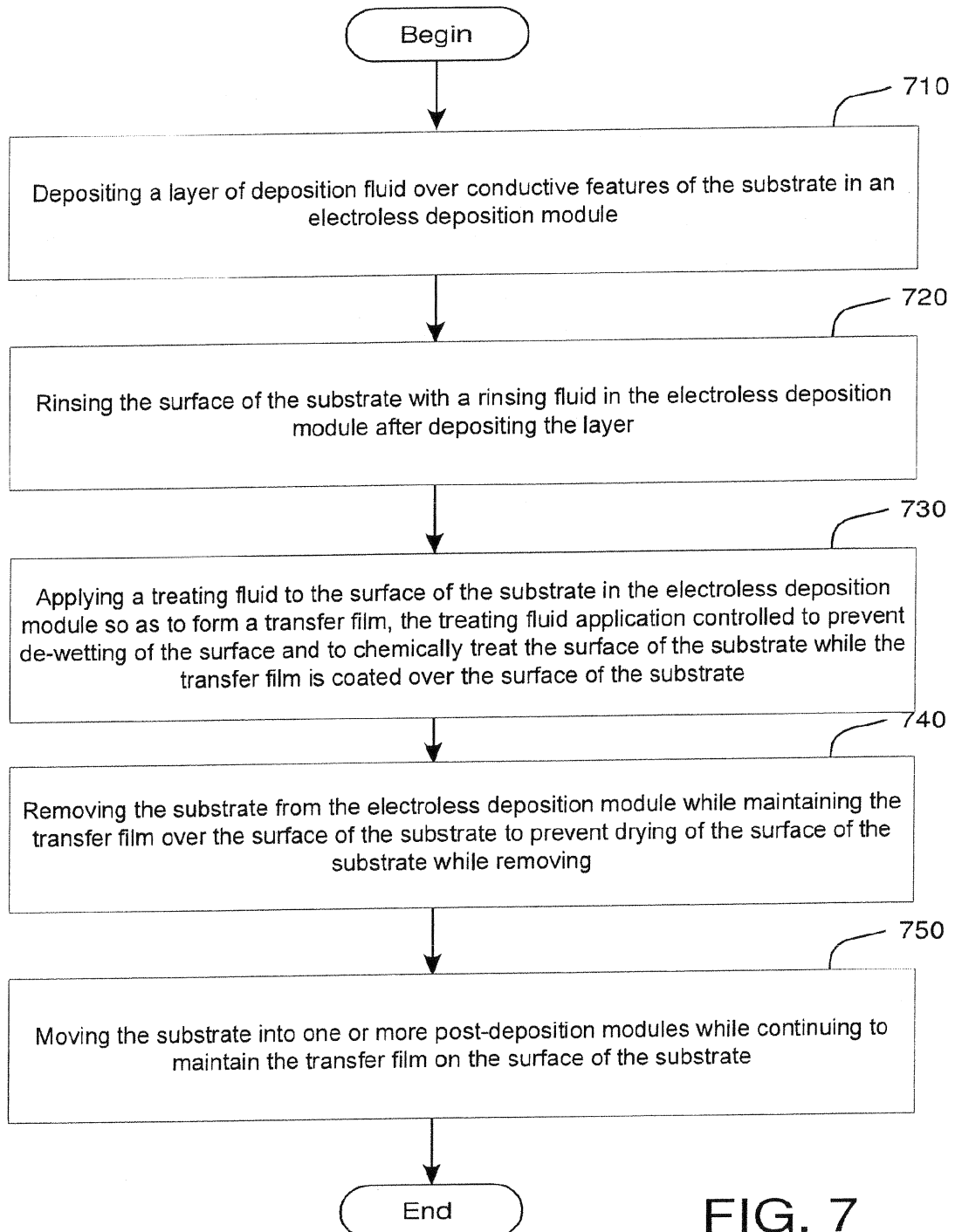


FIG. 7