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[Continued on next page]

(54) **Title:** APPARATUS AND METHODS FOR HIGH THROUGHPUT SPERM SORTING

(57) **Abstract:** This disclosure relates to a system, device, and method for sorting sperm cells in a microfluidic chip. In particular, various features are incorporated into microfluidic chips and into sorting systems for aligning and orienting sperm in flow channels, as well as, for determining sperm orientation and measuring relative DNA content.

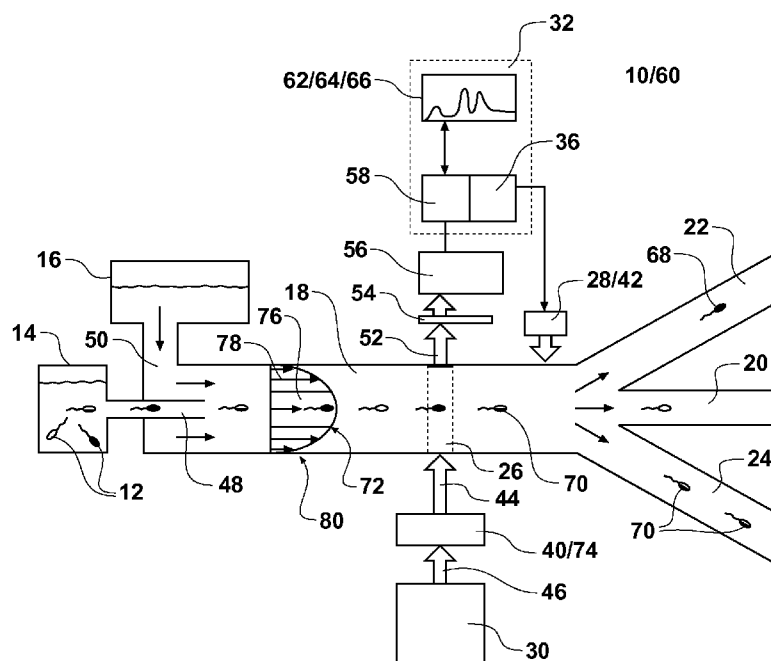


FIG. 1



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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