FIG. 1

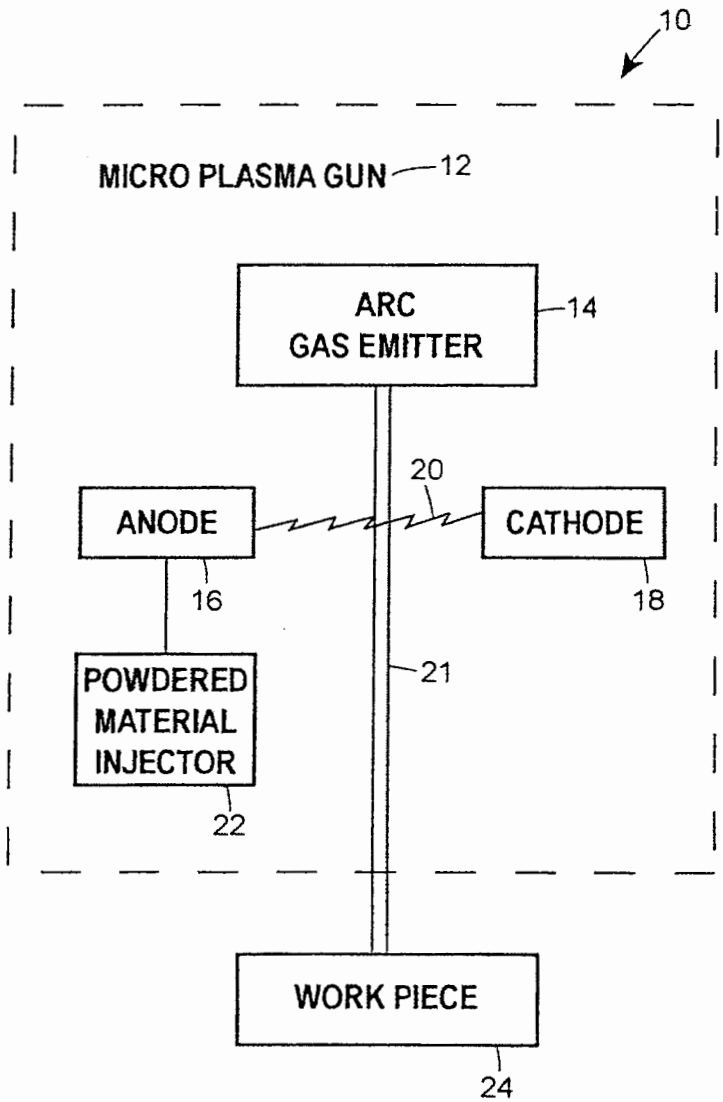

10
MICRO PLASMA GUN
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ARC
GAS EMITTER
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ANODE
CATHODE
16
18
POWDERED
MATERIAL
INJECTOR
21
22
WORK PIECE
24

FIG. 2

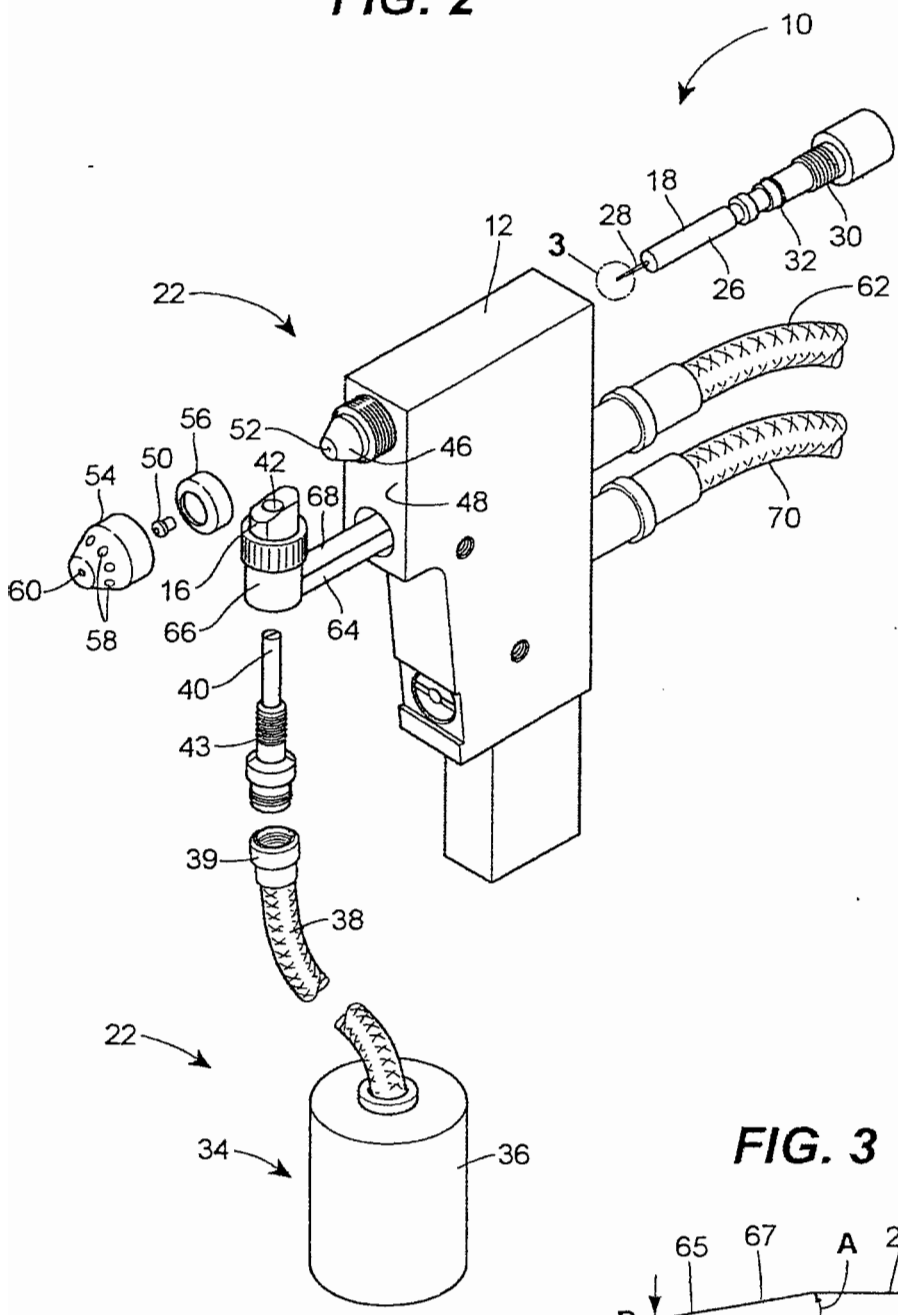

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FIG. 3

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A
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B

FIG. 4

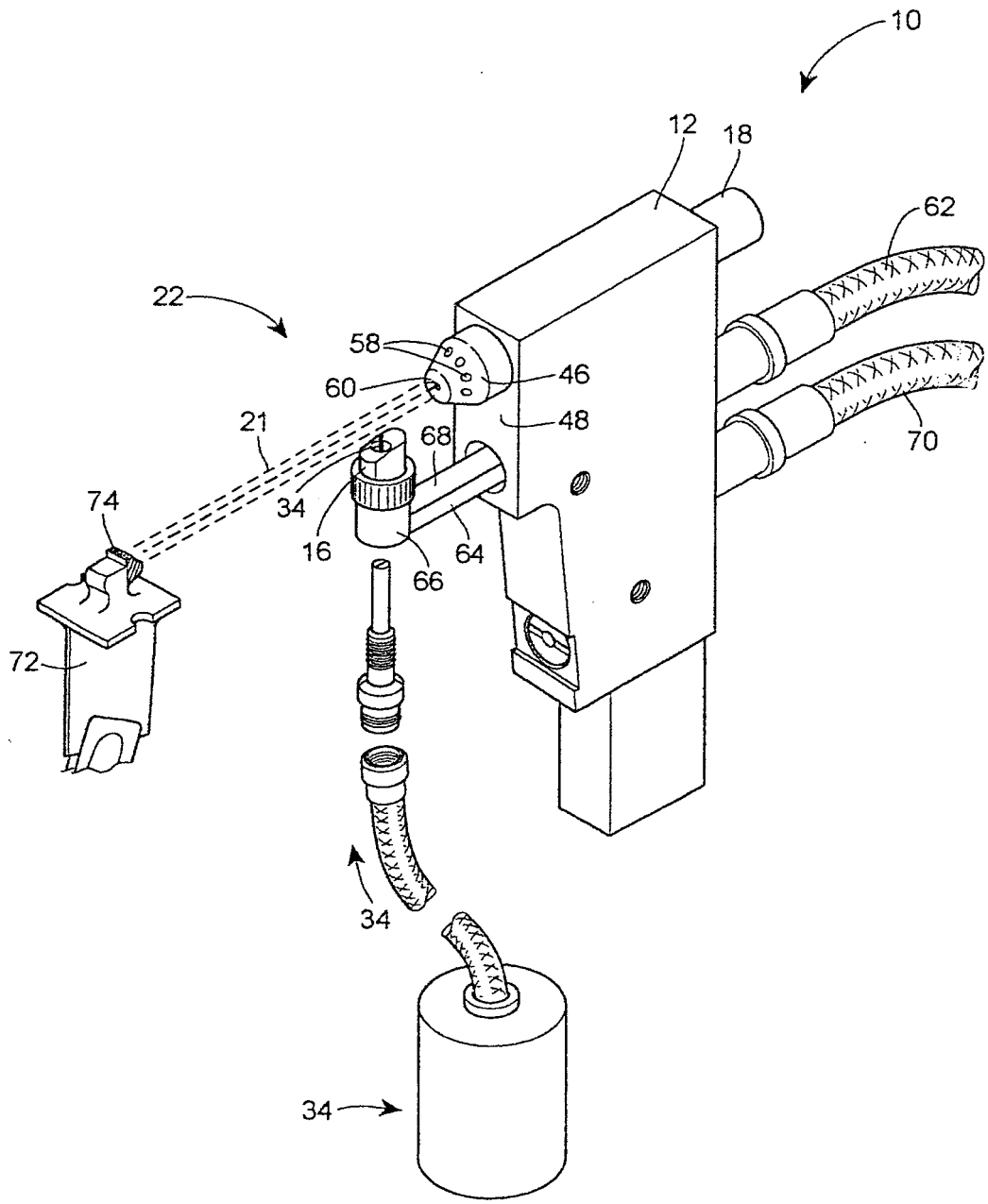
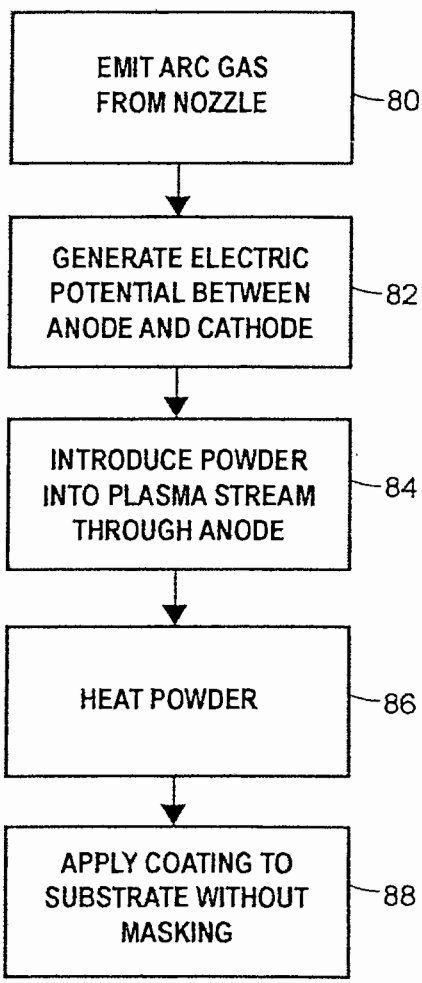


FIG. 5


EMIT ARC GAS FROM NOZZLE
80
GENERATE ELECTRIC POTENTIAL BETWEEN ANODE AND CATHODE
82
INTRODUCE POWDER INTO PLASMA STREAM THROUGH ANODE
84
HEAT POWDER
86
APPLY COATING TO SUBSTRATE WITHOUT MASKING
88