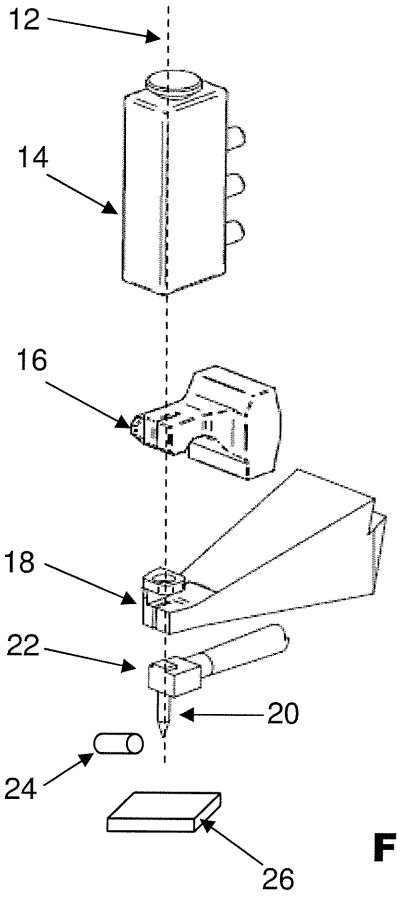

12
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14
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22
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24
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FIG. 1

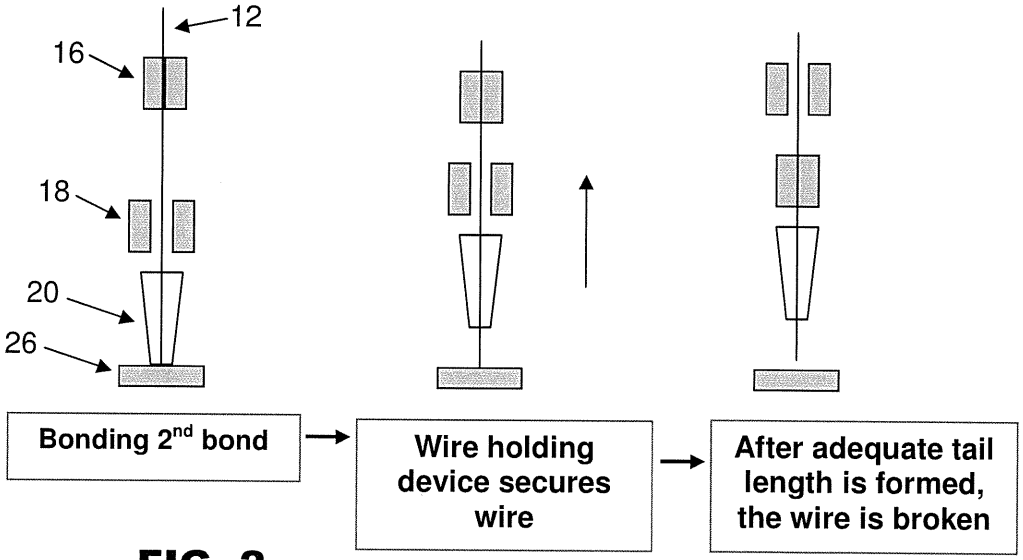

12
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26
Bonding 2nd bond
Wire holding device secures wire
After adequate tail length is formed, the wire is broken

FIG. 2

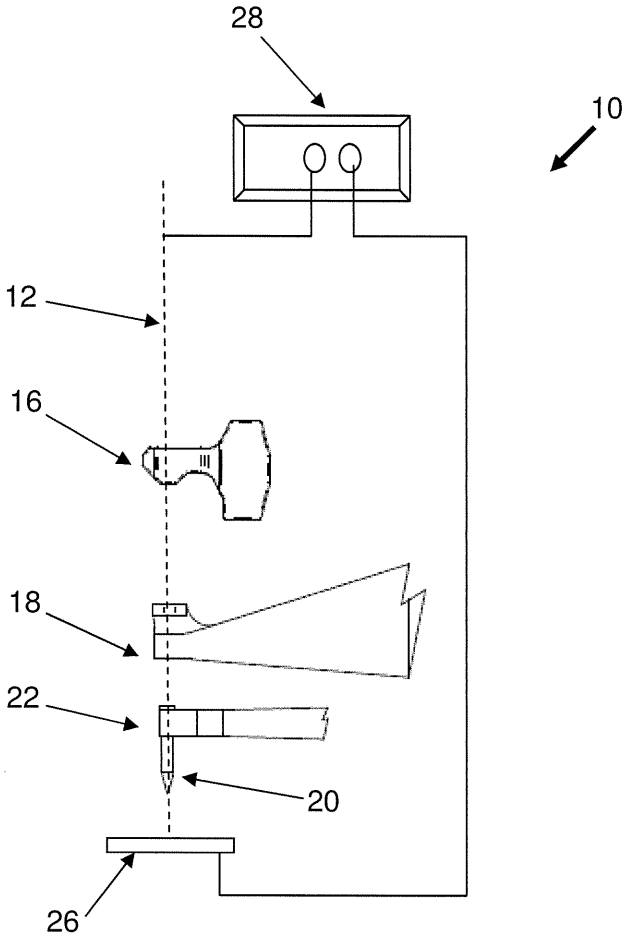


FIG. 3

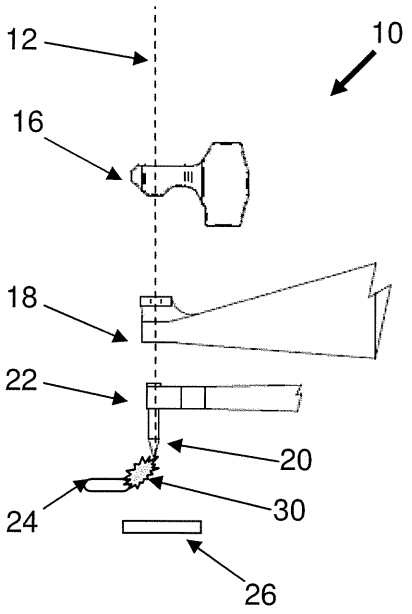

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FIG. 4

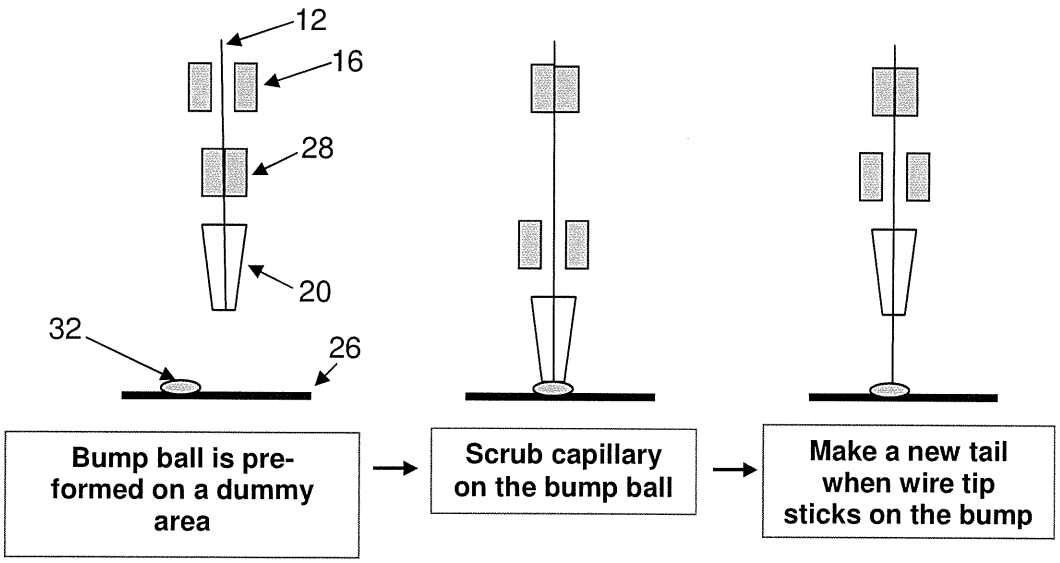

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32
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Bump ball is pre-formed on a dummy area
Scrub capillary on the bump ball
Make a new tail when wire tip sticks on the bump

FIG. 5

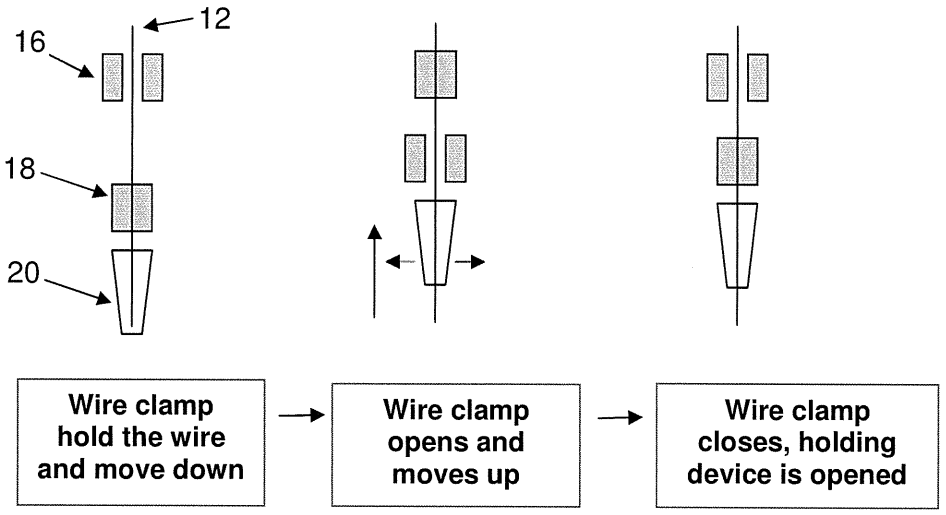

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20
Wire clamp hold the wire and move down
Wire clamp opens and moves up
Wire clamp closes, holding device is opened

FIG. 6

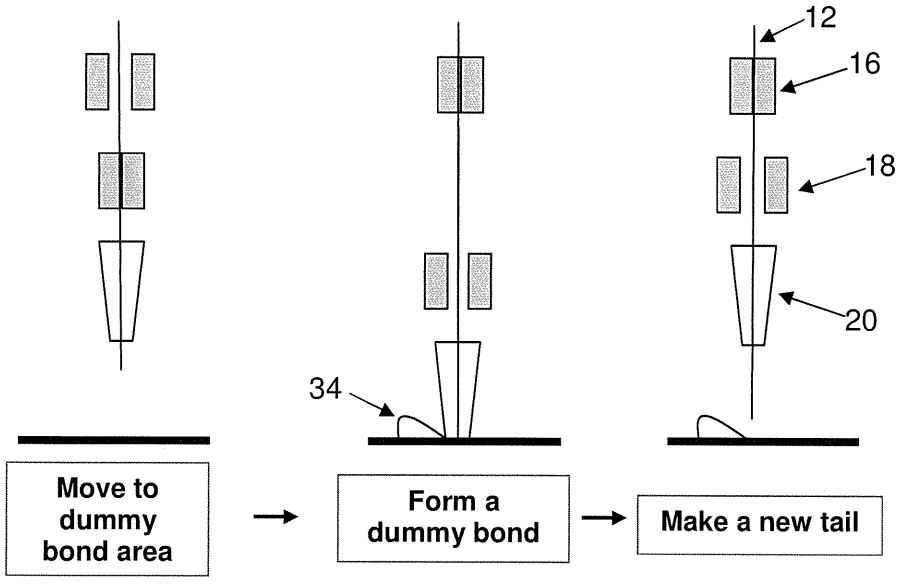

12
16
18
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34
Move to dummy bond area
Form a dummy bond
Make a new tail

FIG. 7