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23. A method of making a resorbable interbody spinal fusion device, comprising the steps of:

providing a mold for said resorbable interbody spinal fusion device;

5 orienting reinforcing fibers under tension in said mold;

introducing a resorbable material into said mold;

molding said resorbable material under pressure; and

releasing tension on said reinforcing fibers prior to removing said device from said mold.

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24. The method of claim 23 wherein said resorbable reinforcing fibers are made of the same material as said resorbable interbody material.

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25. The method of claim 23 wherein said resorbable reinforcing fibers do not contain a buffer.

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26. The resorbable interbody spinal fusion device of claim 10 wherein said buffering or neutralizing agent is selected from the group consisting of compounds wherein the pKa of the conjugate acids of said compounds is greater than the pKa of acids produced by hydrolysis of the polymer(s) from which said device is prepared.

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27. The resorbable interbody spinal fusion device of claim 1, wherein said device is fabricated from at least two resorbable polymers.

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28. The resorbable interbody spinal fusion device of claim 27, wherein one of said resorbable polymers is poly (propylene fumarate).

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29. The resorbable interbody spinal fusion device of claim 27, wherein one of said resorbable polymers has been cross-linked in the presence of a crosslinking agent and an initiator, whereby said crosslinked resorbable polymer forms a reinforcing interpenetrating network.

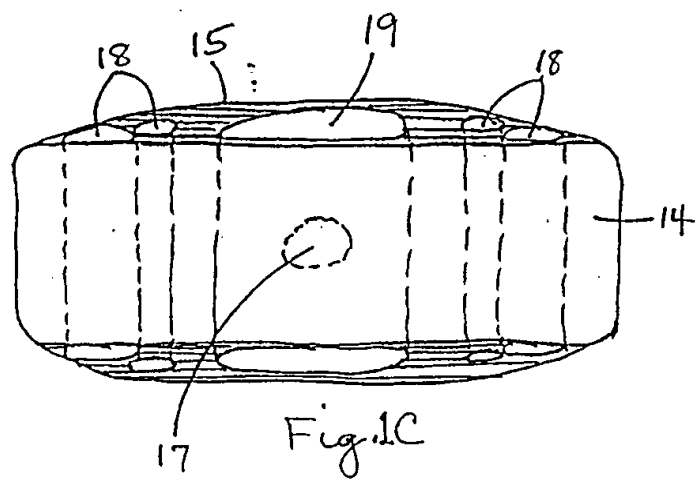
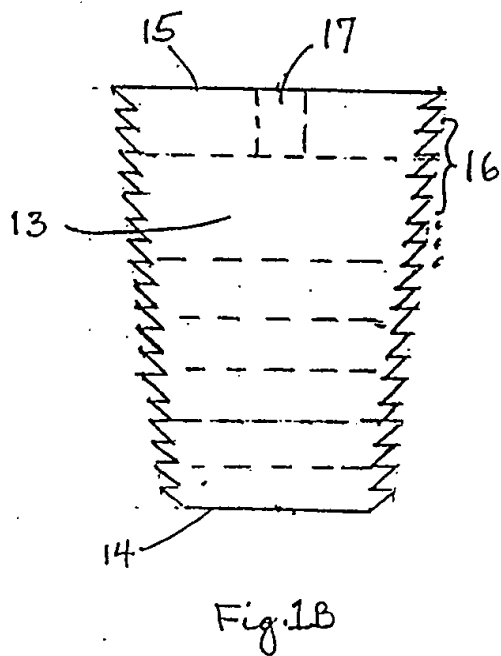
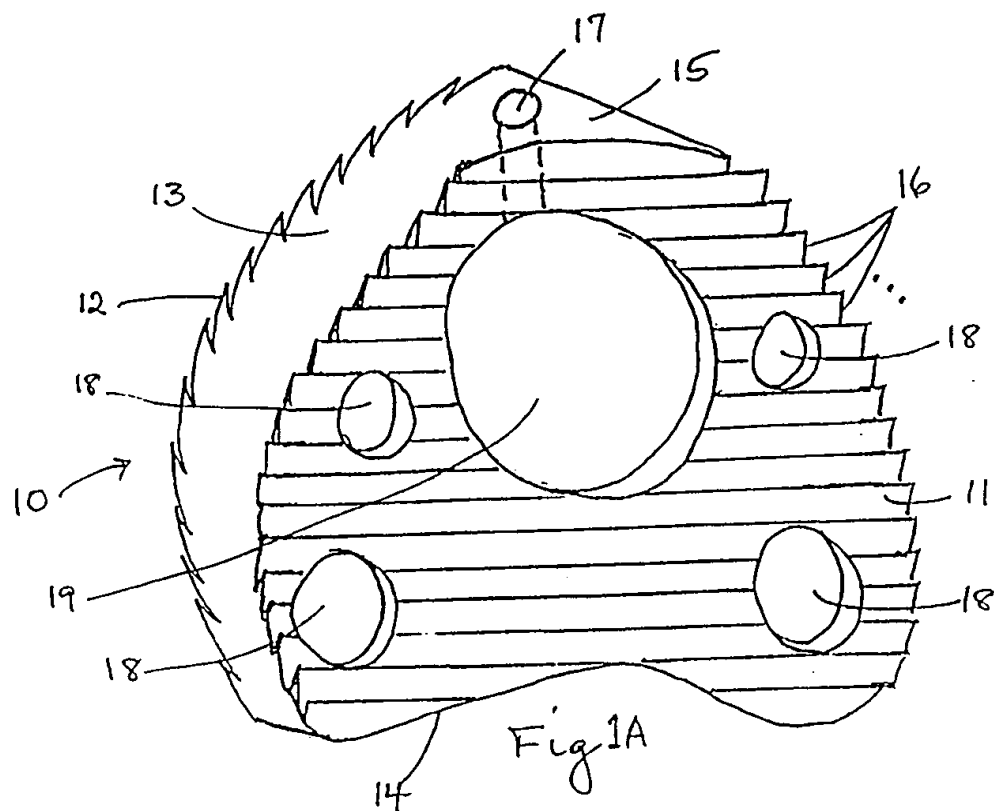
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30. The resorbable interbody spinal fusion device of claim 29, wherein said crosslinking agent is vinyl pyrrolidone.

5 31. The resorbable interbody spinal fusion device of claim 29, wherein said initiator is benzoyl peroxide.

10 32. The resorbable interbody spinal fusion device of claim 1, wherein said device is fabricated from a polymer wherein molecular chains of said polymer have been aligned to be essentially parallel.

15 33. The resorbable interbody spinal fusion device of claim 32, wherein said device has been cut such that the aligned polymer molecular chains are at approximately a 45° angle to a surface of said device.



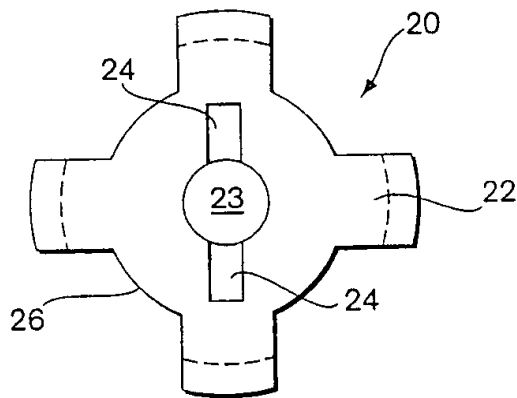


Fig. 2A

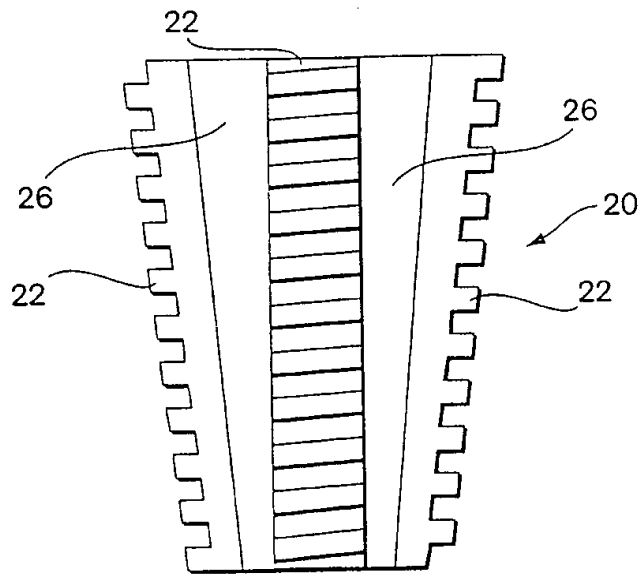
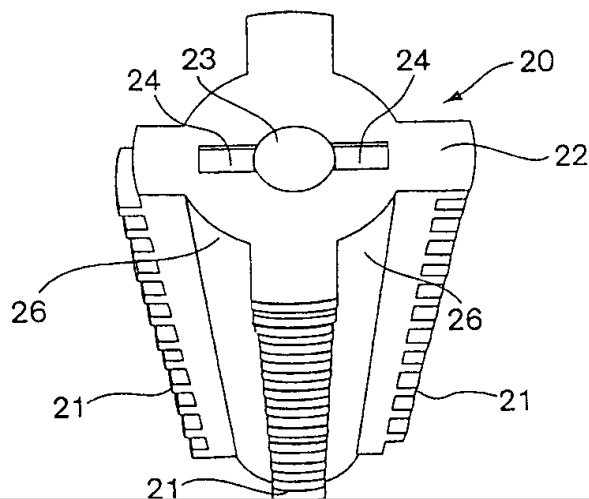


Fig. 2B



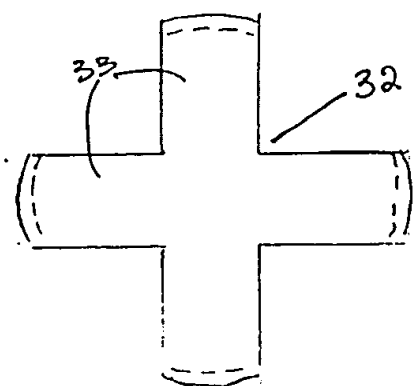


Fig. 3A

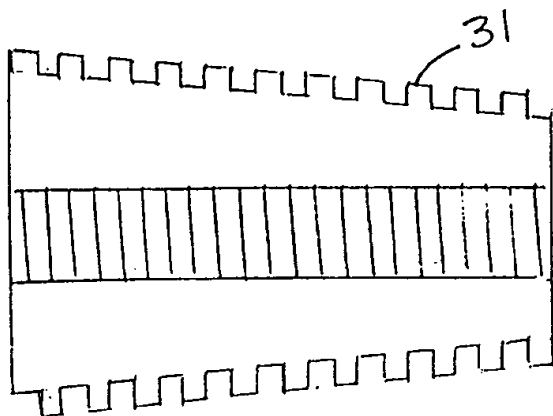


Fig. 3B

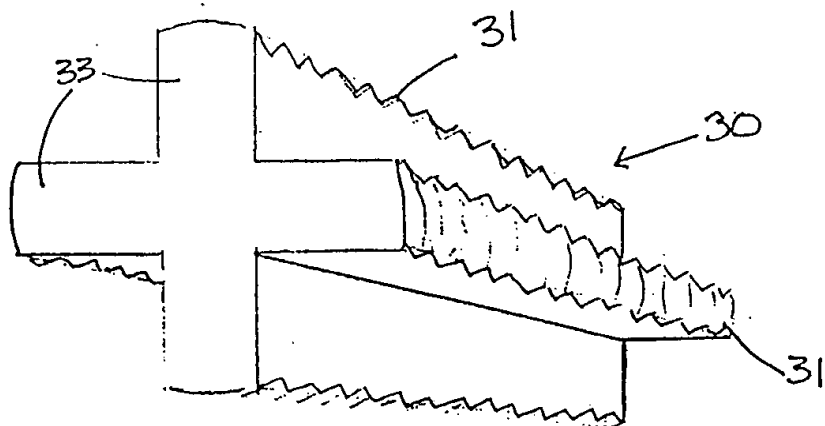


Fig. 3C

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