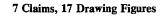
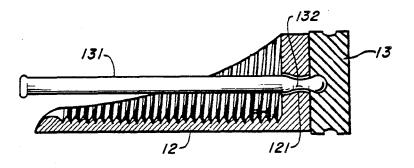
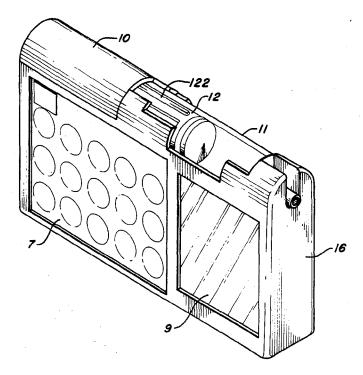
	[45] <b>I</b>	ate of	Patent:	Mar. 10, 1987
	4,126,132	11/1978	Portner et al.	128/214 F
, ,	4,150,672 4,191,187	4/1979 3/1980	Whitney et al. Wright	128/214 F 128/218 A
1,851				222/390 128/214 F
ov. 15, 1983				
	4,326,517 4,342,311 4,367,738 4,391,272 4,399,712 4,465,475	4/1982 8/1982 1/1983 7/1983 8/1983 8/1984	Whitney et al. Whitney et al. Legendre et al. Staempfli Oshikubo et al. Madorf et al.	
eferences Cited FENT DOCUMENTS	Primary Exa Assistant Exa	miner—Si iminer—N	tephen C. Pel Mark Rooney	llegrino
Glass et al	[57]			
Reiter et al. 604/224 Crescas et al. 604/155 Holter 128/2 Williamson 128/2.05 Frey et al. 604/154 Jewett 128/214 Hellman et al. 128/2 R Hobbs 128/2 R Hellman et al. 128/2 R Luciano et al. 604/211 Maroth 128/218 R Wootten et al. 128/2 R Kamen 128/218 A Wuthrich et al. 128/2 A Wuthrich et al. 128/2 A	An infusion pump has a removable reservoir including a piston and drive member. The drive member is an internally threaded elongated portion of the piston. A motor rotates a short drive screw, which engages the threads of the drive member to displace the piston in the reservoir. In one embodiment the piston is attached to the drive member by a severable central stem which breaks away to allow engagement with the drive screw. With the stem severed, the piston cannot be retracted, or the reservoir refilled. Other safety features are shown for locking the displaced piston in the reservoir. A digital metering system has a safety circuit to prevent dangerous failure modes of the rotation sensor and motor drive systems.  7 Claims, 17 Drawing Figures			
	1	ASSEMBLY	CPUMP WITH REPLACEABLE   ASSEMBLY   4,126,132 11/1978   4,142,524 3/1979   4,150,672 4/1979   4,191,187 3/1980   4,258,866 3/1981   4,269,185 5/1981   4,300,554 11/1981   4,300,554 11/1981   4,320,757 3/1982   4,367,738 1/1982   4,367,738 1/1983   4,269,185 5/1981   4,300,554 11/1981   4,320,757 3/1982   4,367,738 1/1983   4,367,738 1/1983   4,397,712 8/1983   4,391,272 7/1983   4,391,272 7/1983   4,391,272 7/1983   4,391,272 7/1983   4,397,112 8/1983   4,465,475 8/1984   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,493,704 1/1985   4,391,272 7/1983   4,391,272 7/1983   4,391,272 7/1983   4,391,272 7/1983   4,493,704 1/1985   4,391,272 7/1983   4,367,738 1/1983   4,367,738 1/1983   4,367,738 1/1983   4,367,738 1/1983   4,367,738 1/1983   4,367,738 1/1983   4,397,738	CPUMP WITH REPLACEABLE ASSEMBLY

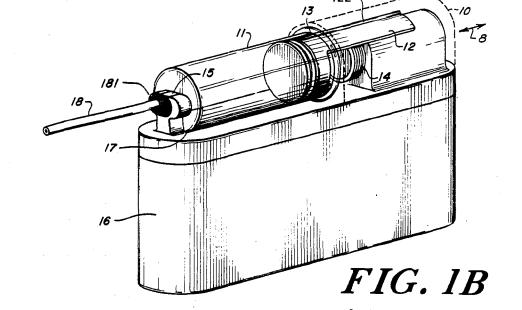


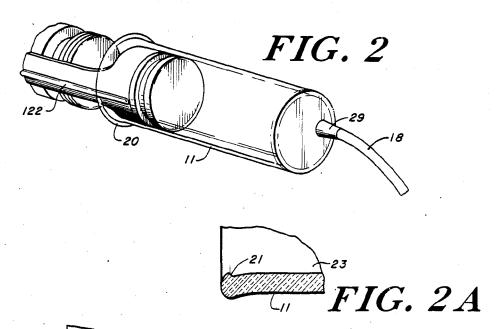


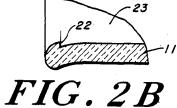












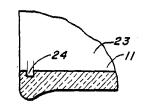


FIG. 2C

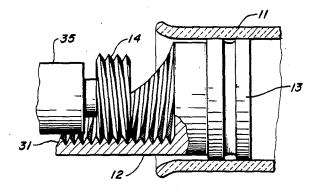


FIG. 3

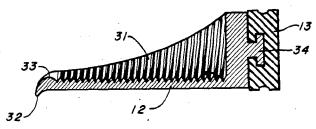


FIG. 3A

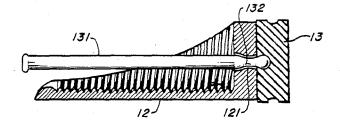


FIG. 3B





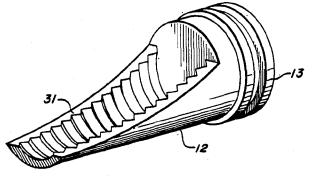
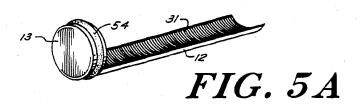
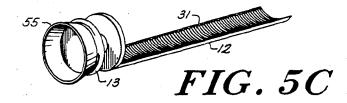


FIG. 4







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