EXHIBIT 4

Uı	tes Patent [19]	[11]	Patent Number:			5,373,745				
Cag	v	[45]	D	ate of	Patent:	Dec. 20, 1994				
[54]	SINGLE P	4,798 4,811	,606 3/19	3/1989	Hasegawa et	al 861/73				
[75]	Inventor:	Dor	ald R. Cage, Longmont, Colo.	4,823		4/1989 5/1989		861/73 861/73		
[73]	Assignee:	Dir	ect Measurement Corporation, agmont, Colo.	4,852 4,856 4,891	,410 ,346	8/1989	Corwon et a Kane	l		
[21]	Appl. No.:	167	719					861/73		
[22]	Filed:		. 15, 1993	4,949 5,024			Lang et al			
[1		J.S. Application Data	5,024,104 6/1991 Darnes . FOREIGN PATENT DOCUMENTS							
[63]	Continuation of Ser. No. 843,519, May 8, 1992, abandoned, and Ser. No. 651,301, Feb. 5, 1991, abandoned.			88146	06.5		France . Germany .			
[51] [52] [58]	U.S. Cl			62-186 1003	0741 8617	7/1987 3/1983	Japan . U.S.S.R	73/861.37		
[56]		References Cited				Primary Examiner—Walter E. Snow Assistant Examiner—Raymond Y. Mah				
U.S. PATENT DOCUMENTS				Attorney, Agent, or Firm—Konneker Bush Hitt & Chwang						
	te. 31,450 11/ 3,927,565 12/	1975	Smith	[57]			ABSTRACT			
	4,109,524 8/ 4,420,983 12/ 4,422,338 12/ 4,491,025 1/ 4,622,858 11/ 4,628,744 12/ 4,653,332 3/ 4,680,974 7/ 4,691,578 9/ 4,716,771 1/	Smith 194/73 Langdon 73/861.18 Smith 861/73 Smith et al. 861/73 Mizerak 861/73 Lew 861/73 Simonsen 861/73 Simonsen et al. 861/73 Herzl 861/73 Kane 861/73	A flow meter apparatus for measuring the mass flow rate of a fluid using the Coriolis principle. A single straight flow conduit is employed which is vibrated in radial-mode of vibration. Coriolis forces are thereby produced along the walls of the flow conduit which deform the conduit's cross-sectional shape as a function of mass flow rate. Additional embodiments are disclosed employing vibration of selected portions of the							

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Lew 861/73

38 Claims, 27 Drawing Sheets

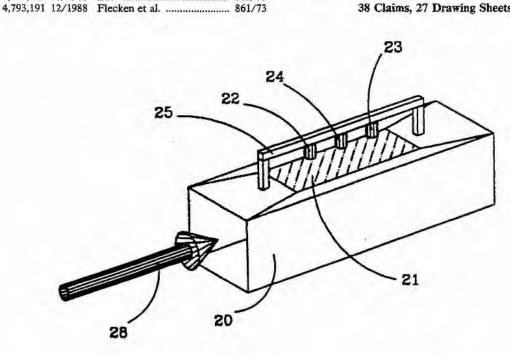
flow conduit walls. In addition, a method is described to

determine the pressure and the density of a fluid by

simultaneously vibrating a flow conduit in two modes

of vibration and thereby determining pressure and den-

sity based on changes in each frequency.





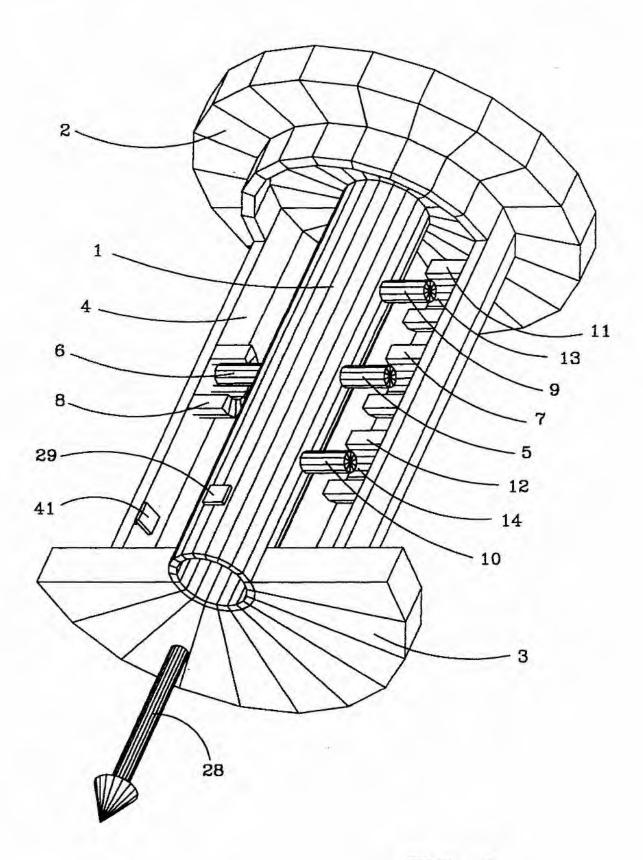
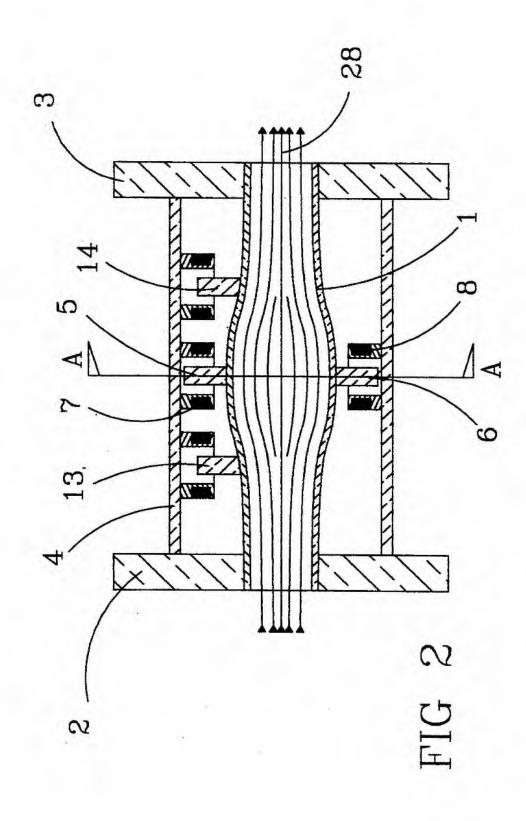
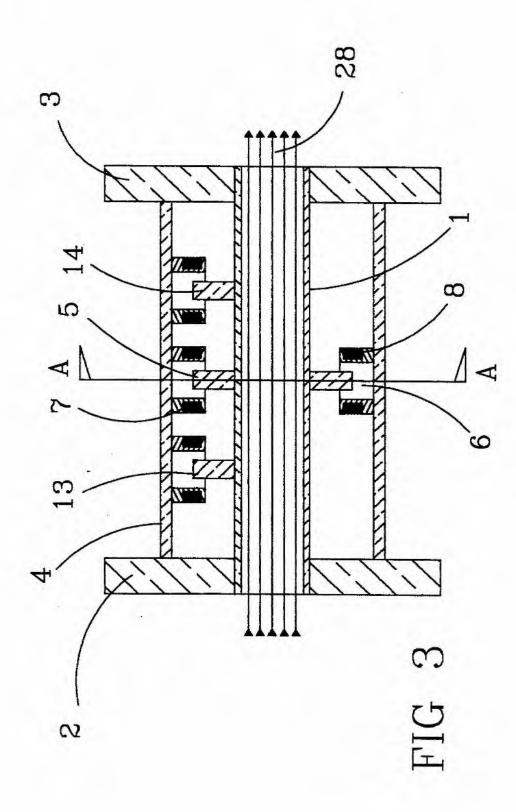


FIG. 1

Dec. 20, 1994









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