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Critelli et al.

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- (54) **TAPE MEASURE WITH EXTENDED STANDOUT**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

4,352,244	A	10/1982	Tomuro
4,411,072	A	10/1983	Rutty
4,429,462	A	2/1984	Rutty
4,527,334	A	7/1985	Jones
4,976,048	A	12/1990	Blackman
5,010,657	A	4/1991	Knapp
5,063,686	A *	11/1991	Peloquin 33/757
5,659,970	A	8/1997	Reedy
5,879,243	A *	3/1999	Hackman 473/342
6,243,964	B1	6/2001	Murray
6,249,986	B1	6/2001	Murray
6,282,808	B1	9/2001	Murray
6,324,769	B1	12/2001	Murray
6,349,482	B1	2/2002	Gilliam
6,367,161	B1	4/2002	Murray
6,449,866	B1	9/2002	Murray

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(51) **Int. Cl.**
G01B 3/02 (2006.01)
G01B 3/10 (2006.01)

(52) **U.S. Cl.** **33/755; 33/757; 33/770; 33/771**

(58) **Field of Classification Search** **33/755, 33/757, 758, 759, 770, 771**
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
2,050,941 A 8/1936 Farrand
2,319,724 A * 5/1943 Dinhofer 33/757
2,994,958 A * 8/1961 Becber 33/771
3,630,104 A 12/1971 Milner

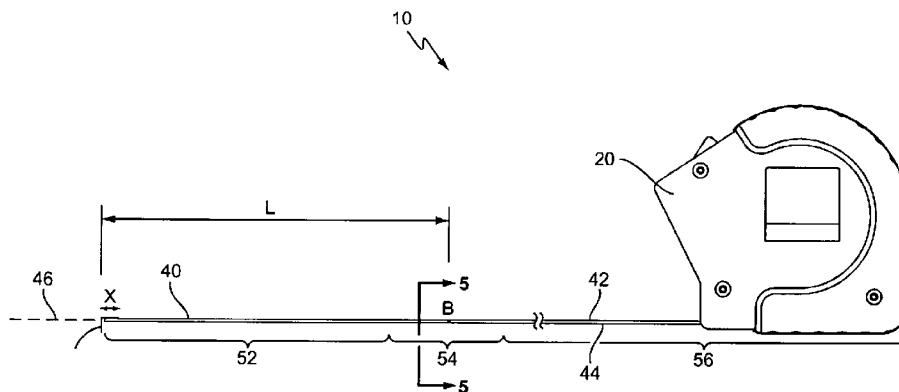
(Continued)

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(57) **ABSTRACT**

A tape measure comprises a main case having first and second sidewalls and a peripheral wall extending between the sidewalls; a flexible tape blade selectively deployable from the case; the tape blade having a generally curved cross-sectional profile when deployed from the main case and having a generally flat profile when retracted into the main case; a hook attached to a first end of the tape blade so as to be movable a distance along a longitudinal axis of the tape blade; the hook having a first section disposed generally parallel to the longitudinal axis and a second section connected thereto and disposed generally normal to the longitudinal axis, the hook having a weight factor of not more than about 0.60. The tape blade may advantageously be not more than about 1.10 inch in width and have a standout of at least 9½ feet.

18 Claims, 7 Drawing Sheets



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U.S. PATENT DOCUMENTS

6,473,986	B1 *	11/2002	Sun	33/757	6,892,468	B1 *	5/2005	Murray	33/761
6,499,226	B1	12/2002	Reda		6,907,676	B1 *	6/2005	Liao	33/757
6,536,308	B1 *	3/2003	Thorne et al.	81/20	6,959,500	B1 *	11/2005	Liao	33/757
6,643,947	B1	11/2003	Murray		2002/0129509	A1 *	9/2002	Evans, III	33/757
6,678,967	B1 *	1/2004	Jueneman	33/758	2003/0172539	A1 *	9/2003	Lee	33/757
6,718,649	B1	4/2004	Critelli		2003/0233762	A1	12/2003	Blackman	
6,804,899	B1 *	10/2004	Murray	33/755					

* cited by examiner

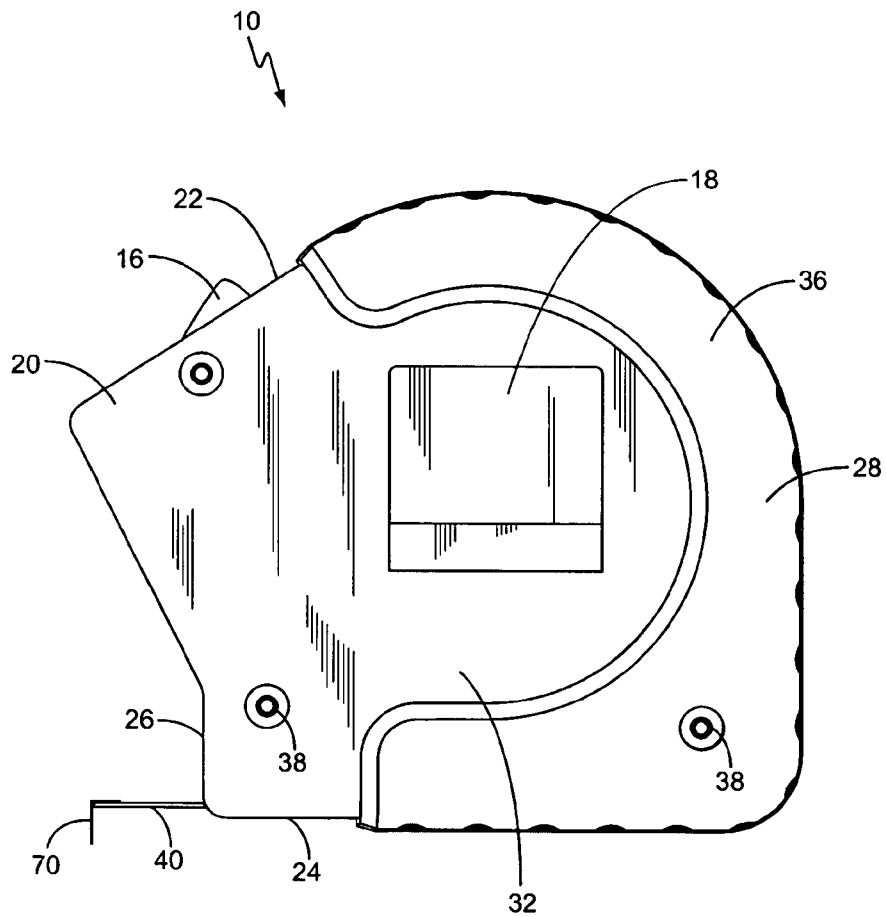


FIG. 1

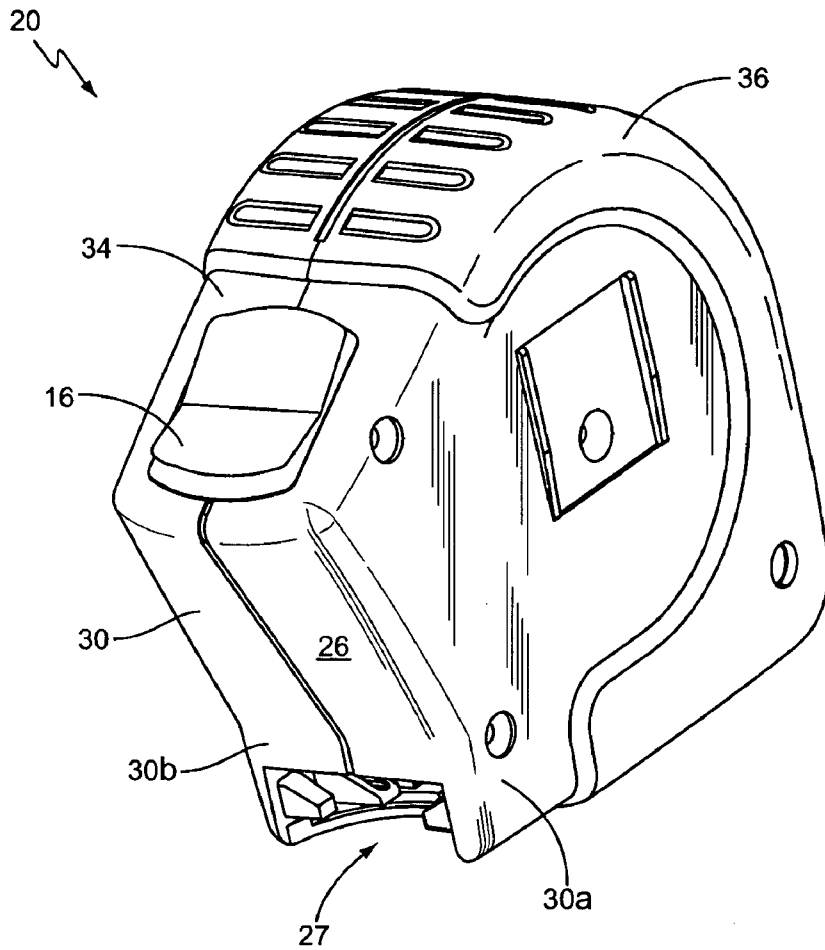


FIG. 2

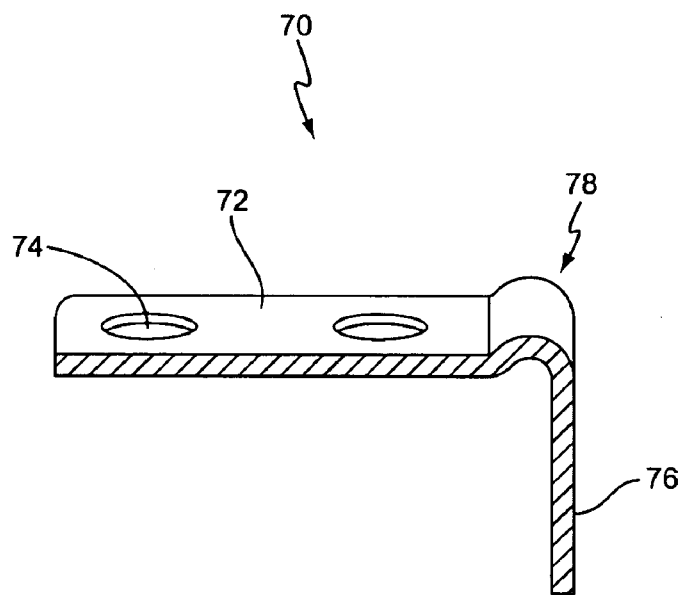


FIG. 3

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