

CHRISTOPHER DUNN PATENT

United States Patent [19] **4,176,458**
Dunn [45] **Dec. 4, 1979**

[54] DISTANCE MEASURING APPARATUS

[76] Inventor: Christopher H. Dunn, 23 Emily St.,
 Parry Sound, Ontario, Canada

[21] Appl. No.: 890,274

[22] Filed: Mar. 27, 1978

[51] Int. Cl.: G01B 3/12

[52] U.S. Cl.: 33/141 E

[58] Field of Search: 33/141 R, 141 E

[56] References Cited

U.S. PATENT DOCUMENTS

2,294,566	9/1942	Malm et al.	33/141 R
2,741,031	4/1956	Martin et al.	33/141 R
3,497,959	3/1970	Engelsman	33/141 R

Primary Examiner—Steven L. Stephan

Attorney, Agent, or Firm—Robert D. Farkas

[57] ABSTRACT

A distance measuring apparatus utilizes a removeable wheel journaled to one end of an extensible handle. The wheel is provided with a plurality of equally spaced reflectors or protrusions on one lateral surface thereof. A pick up device, mounted to an adjacent end of the handle, sensing the position of each reflector or protrusion, sending a pulse-like signal to a counting device feeding a memory bank. A converting unit operates a digital display unit such that the digital display will signal the number of turns which the wheel takes when moved along, in contact with the surface of the ground contacting the wheel perimeter.

5 Claims, 5 Drawing Figures

