AD-753 499 MEASURING HEAD Yu. Z. Tenenbaum, et al Foreign Technology Division Wright-Patterson Air Force Base, Ohio 22 November 1972 **DISTRIBUTED BY: National Technical Information Service** U.S. DEPARTMENT OF COMMERCE 5285 Port Royal Road, Springfield Va. 22151 ł

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FOREIGN TECHNOLOGY DIVISION

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MEASURING HEAD by

Yu. Z. Tenenbaum and V. S. Demidov



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1	Air Force Systems Command		25. GROUP			
REPORT TIT	J. S. Air Force	·····	<u> </u>			
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AUTHOR (S) (Trat name, middle Iniilei, Iaet name)					
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	8 September 1969	R.	1			
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1	Approved for public release	; distribut:	ion unli	mited.		
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MEASURING HEAD

By: Yu. Z. Tenenbaum and V. S. Demidov

English pages: 2

Source: USSR Patent No. 288210 (Appl. No. 1362515/25-28, September 8, 1969), 1971, pp. 1-2.

Requester: ASD

Translated by: SSgt René E. Courville

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TRANSLATION DIVISION FOREIGN TECHNOLOGY DIVISION WP-AFB, OHIO.

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MEASURING HEAD

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The invention pertains to the area of measuring technique for linear measurements of dimensions.

An existing measuring head contains a housing (in which there are series connected mechanisms - one a sine mechanism and the other a link mechanism with a drive lever - and two gears), an indicator, a scale, and a gap selection unit. The proposed head is distinguished by the fact that the lever of the link mechanism is made adjustable in length. This increases accuracy.

The drawing depicts a functional diagram of the proposed head.

It contains housing 1, sine mechanism 2, Jink mechanism 3 with drive lever 4 and two gears 5 and 6, indicator 7, scale 8, and gap selection unit 9. The lever of the link gear is made adjustable in length. The gears are set up so that the ratio of the lever length to the center-to-center distance of the hinges equals three. In this case the nonlinearity error on the scale is not observed on account of its small value. A definite type of error is added because of the turning of gear wheel 10. On the basis of the amplitude of error caused by error in the gear wheel, the length of the lever is adjusted, in this case restoring the required gear ratio.

Object of the Invention

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The measuring head containing a housing (in which there are series connected mechanisms - one a sine mechanism and the other a link mechanism with a drive lever - and two gears), an indicator, a scale, and a gap selection unit <u>is distinguished</u> by the fact that the lever of the link mechanism is made adjustable in length to increase accuracy. 

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