

**ABSTRACT**

**Contact force testing apparatus, use of such a contact force testing apparatus and method for producing such a contact force testing apparatus**

5 The invention relates to a contact force testing apparatus (10) comprising a measuring sensor, which measuring sensor can be contacted with an electrical contact element (1, 2) and measures a contact force (F) of a contact with the electrical contact element (1, 2) and wherein the measuring sensor (100)  
10 comprises piezoelectric material (102, 103) which receives the contact force (F) in a contact region (3) and produces polarization charges. The measuring sensor (100) comprises an acceptor electrode (104) which is completely surrounded by piezoelectric material (102, 103) in the contact region (3) in  
15 the direction of a thickness extension of the measuring sensor (100) and receives the polarization charges. The invention also relates to the use of such a contact force testing apparatus (10) and a method for producing such a contact force testing apparatus (10).

20 (Fig. 2)