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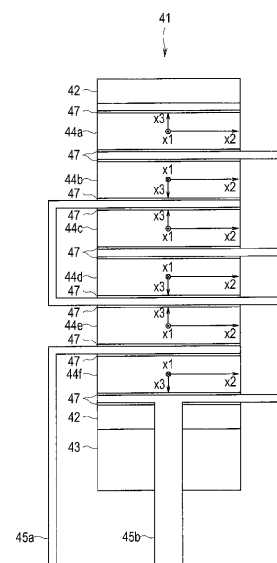
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(54) **ULTRASONIC VIBRATION DEVICE, AND ULTRASONIC MEDICAL APPARATUS**

(57) There is provided an ultrasound transducer device 2 including a plurality of piezoelectric single-crystal plates 44a to 44f that are stacked such that polarization components thereof are alternately inverted. The plurality of piezoelectric single-crystal plates 44a to 44f are stacked such that directions thereof in which strain deformation in a direction orthogonal to a direction of voltage application from electrodes 45a, 45b respectively interposed between the plurality of piezoelectric single-crystal plates becomes largest coincide with each other. There is also provided an ultrasound medical apparatus 1 including the ultrasound transducer device 2.

FIG.11



EP 2 800 400 A8

专利名称(译)	超声波振动装置和超声波医疗器械		
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摘要(译)

提供了一种超声换能器装置2，其包括多个压电单晶板44a至44f，所述多个压电单晶板44a至44f堆叠成使得其偏振分量交替反转。多个压电单晶板44a至44f堆叠成使得其中在分别插入多个压电单晶板之间的电极45a，45b的与施加电压的方向垂直的方向上的应变变形变得最大的方向一致彼此。还提供了一种包括超声换能器设备2的超声医疗设备1。

