

Abstract**Ultrasonic Transducers For Wire Bonding And Methods Of Forming Wire Bonds Using Ultrasonic Transducers**

A method of forming a wire bond using a bonding tool coupled to a transducer is provided. The method includes the steps of: (1) applying electrical energy to a driver of the transducer at a first frequency; and (2) applying electrical energy to the driver at a second frequency concurrently with the application of the electrical energy at the first frequency, the first frequency and the second frequency being different from one another.

Fig. 4A