

particular both substrates, start to vibrate. Both substrates or the substrate stack made up of the upper and the lower substrate, which is fusing due to the propagation of the bond wave, are excited. The amplitude of the vibration lies in the sub-micrometre, particularly nanometre range and is difficult to detect. However, errors or distortions that are created as a consequence of these vibrations can be detected.

~~It is therefore the object~~Embodiments of the present invention ~~to specify~~disclose a substrate holder, a bonding device, a method for producing a substrate holder and a method for bonding, which overcome at least in part, in particular overcome completely, the disadvantages listed in the prior art. ~~It is in particular the object~~Embodiments of the invention ~~to specify~~disclose an improved substrate holder, an improved bonding device, a method for producing a substrate holder and a method for bonding. ~~It is furthermore the object~~Embodiments of the present invention ~~to specify~~disclose a substrate holder, a bonding device, a method for producing a substrate holder and a method for bonding, with the aid of which an improved bonding result can be achieved. ~~In addition, it is the object~~Embodiments of the invention ~~to specify~~disclose a substrate holder, a bonding device, a method for producing a substrate holder and a method for bonding, with the aid of which local distortions of the substrates, particularly as a consequence of vibrations, created during bonding, of the substrate or of the substrate stack to be bonded, can be reduced and in particular can be prevented.

~~The present object is achieved using the features of the coordinate claims. Advantageous developments of the invention are specified in the dependent claims.~~ All combinations of at least two features specified in the description, the claims and/or the drawings also fall within the scope of the invention. When value ranges are given, values lying inside the limits mentioned should also be considered as disclosed as limit values and claimable in any desired combination.