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ABSTRACT



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"APPARATUS AND METHOD FOR BALL RELEASE"

There is disclosed a method and apparatus for ensuring release of objects such as solder balls from a pick head in a transfer and placement apparatus, comprising causing said pick head to vibrate by applying a vibration signal to said pick head over a range of frequencies. The range of frequencies is chosen such that it bounds the resonant frequencies of the pick head which may be calculated by computer simulation.

Figure 6