

The proposed method for unloading shells consists in induction heating of the certain areas of the shell casing (1) for the purpose to melt the layer (5) between the casing (1) and explosive charge (2), and then the explosive charge is removed from the casing. According to the present invention, the shell is exposed to vibrations with variable frequency. The vibration frequency is set within the shell natural frequency range. In certain modifications of the proposed method, the shell natural frequencies are determined from specified equations. The present invention provides for increasing efficiency of an unloading process, decreasing energy consumption, and providing maximal safety due to combined heat and vibration action in the range of the shell natural frequency range.