

In Figure 4, the Von Mises stress distribution on a modified trigger is shown. In this design, a third rib was added in the area between the trigger hoop and the body of the trigger. Peak stresses were lowered considerably, from 114,000 psi to 52,300 psi. Figure 5 contains a close-up view of the rib area. A different scale was used in the color contours of this figure to show the complete range of stress.

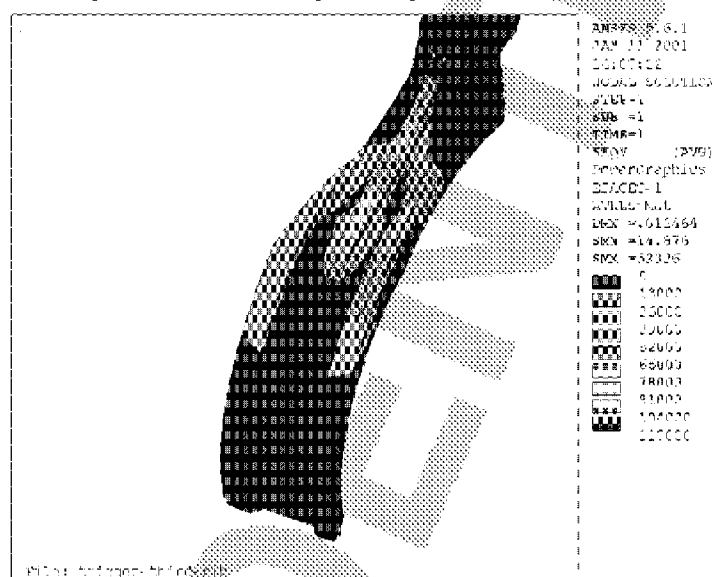


Figure 4. Von Mises stress distribution in trigger with third rib added.

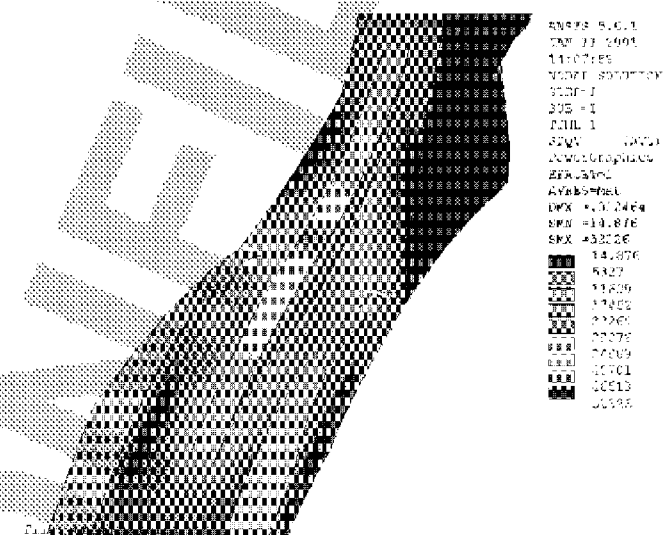


Figure 5. Close-up of Von Mises stress distribution in trigger with added third rib.