

Figure 8 contains the Von Mises stress distribution in the trigger with material added to the area where the hoop of the trigger joins the body. Peak stress for this model is 30,700 psi, about one fourth of the 114,000 psi stress in the current design. Figure 9 contains a close-up view of the high-stress area. A different scale is used in Figure 9 to show the complete range of stress.

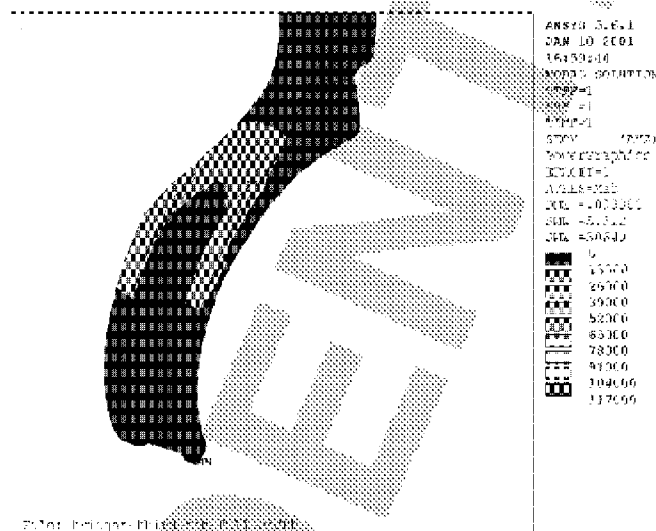


Figure 8. Von Mises stress distribution in trigger with back filled in.

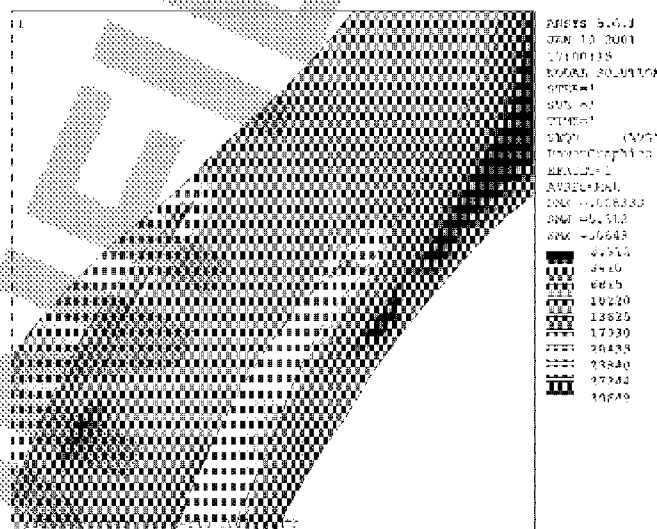


Figure 9. Close-up of Von Mises stress distribution in trigger with back filled in.