

Fig. 11—Micrographs of various filler metals after being brazed under vacuum for 10 min at  $2 \times 10^{-5}$  mbar onto the surfaces of nickel- and iron-alloy base metals: A—BNI-7 on Ni-alloy base metal, 1000°C; B—BAU-4 on Ni-alloy base metal, 1000°C; C—BNI-2 on Ni-alloy base metal, 1040°C; D—BNI-7 on Fe-alloy base metal, 1000°C; E—BAU-4 on Fe-alloy base metal, 1000°C; F—BNI-2 on Fe-alloy base metal, 1040°C (note: 1000 and 1040°C equivalent to 1832 and 1904°F, respectively). X50

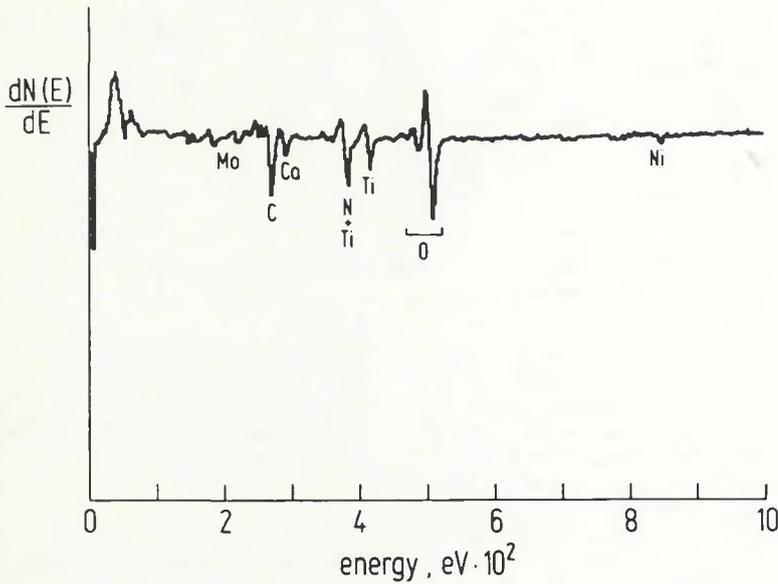


Fig. 12—Auger spectrum of BAU-4 filler metal surface after being brazed under vacuum on iron-alloy base metal at  $2 \times 10^{-5}$  mbar and 1000°C (1832°F) for 10 min

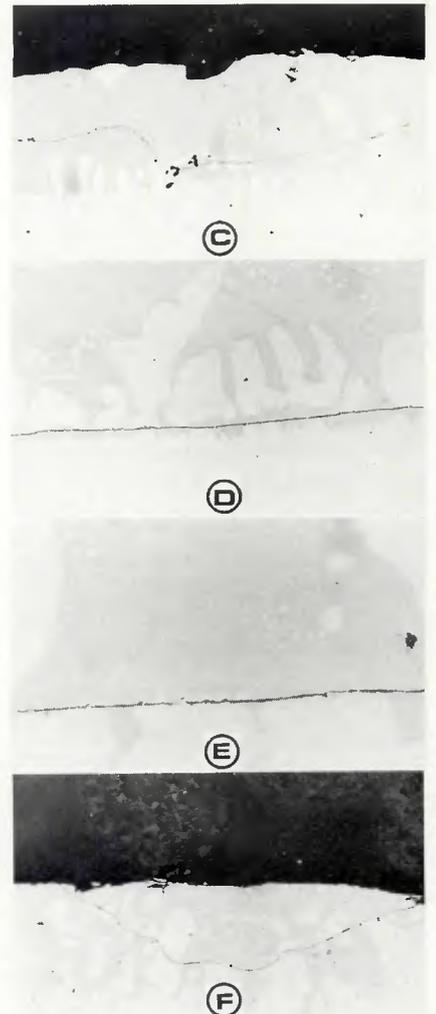


Fig. 13—BNI-7 filler metal after being brazed under vacuum onto the surfaces of nickel- and iron-alloy base metals at  $2 \times 10^{-5}$  mbar and 1000°C (1832°F): A—Fe-alloy base metal, 10 min, X200; B—Fe-alloy base metal, 10 min, X500; C—Fe-alloy base metal, 15 min, X200; D—Ni-alloy base metal, 10 min, X200; E—Ni-alloy base metal, 10 min, X500; F—Ni-alloy base metal, 15 min, X200 (reduced 68% on reproduction)

