

**96-0017**

The invention relates to the silver recovery, mainly from the exhausted and developed X-ray and fluorographic films, photographic paper and other photographic materials by means of chemical reagent treatment thereof.

The summary of the invention consists in the fact that the process for silver recovery from the exhausted photographic material includes the reagent treatment thereof by introducing the disperse phase with the subsequent sediment separation, wherein hydrogen peroxide and the dispersed magnetite are used as reagents, taken in mass relation 1 : (5-10) , the process is carried out at a temperature of 50-70°C with the magneto-liquefaction of the disperse medium by the superposition of the alternating electromagnetic field with the intensity of 1200-1500 Oe on the ferromagnetic gummied spherical bodies comprised of sintered barium hexaferite magnetized till the saturation. The best results are reached at the introduction of 7-10 % hydrogen peroxide solution.

The technical result of the invention consists in the acceleration of the silver containing compounds oxidation process and the mass transfer increase.

Claims: 2