

EXEMPT from automatic declassification  
per E.O. 11652, Sec. 5(E)(2)TURNER / CSA 28 JAN 1978

Name Agency Date

A / 2020Reason CRS-4 091 Review on:

1. (a). Examine through powerful beam of light directed on surface at different angles.  
(b). Photograph excluding certain rays of light.
2. Expose to daylight for one or two hours. Discloses salts of Gold and Silver.
3. Dust a little powdered Charcoal over the surface and brush off well. Discloses paraffine.
4. Run a warm iron over the surface. Discloses Sugar and sulphuric acid; Nickel Chloride and Nitrate; Cobalt Chloride or Nitrate; Copper Bromide or Copper sulphate and Potassium Bromide; Copper Chloride; the juice of Lemons, Onions, Leek, Cabbage, Artichoke.
5. Run a hot iron over the surface being careful not to scorch the paper. Discloses Potassium Hydroxide; Sulphuric acid; Potassium Nitrate; Copper Nitrate.
6. Wet with water. Discloses Camphor; mixture of Linseed oil, ammonia and water.
7. Expose to Hydrogen Sulphide gas or add a little water saturated with it. Discloses Lead Acetate; Compounds of Antimony; of Arsenic; of Tin.
8. Dry in the air and wet with ammonia water. Discloses Mercury and Copper Salts.
9. Add a little Hydrogen Sulphide water to the part wet with ammonia. Discloses Iron; Antimony; Tin; Copper.
10. Rinse with water and dry in the air.
11. Wet with a solution of Iron Sulphate. Discloses Gallic acid Potassium Ferrocyanide.
12. To another part of the paper add a little solution of Potassium Ferrocyanide, or tannin, Discloses Iron Salts.

**CONFIDENTIAL**

APPROVED FOR RELEASE DATE: 31-Mar-2011

NW 24049

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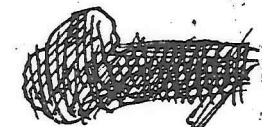
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How to open sealed letter - without detection  
 Mix 5 - dragms copper acetate arsenite  
 3 - ounces acetone  
 and add.

~~1 pint -  
not successful~~

1 pint amyl alcohol (fusil - oil)  
 Heat in water bath - steam rising  
 will dissolve the sealing material &  
 its mucilage, wax or oil.  
 do not inhale fumes.

~~Not in stock~~  
 Ink - - Tetra Chloroquinone ( $C_6Cl_4O_2$ )  
 Tyrosin and Corallin in  
 combination with Stannic  
 and Stannous salts.

~~Not in  
stock~~

{ Selenium and Tellurium salts  
 to generate =  $H_2S$  and  $H_2Te$  and  
 Uranium compounds (Developer)

To be written with a sympathetic  
 ink, to impregnate plain typewriter  
 ribbons which must be used on  
 a specially made typewriter  
 machine with rubber composition  
 types.

*u.s.f.*

"Acetate of Lead" Writing 10 grains of Proto sulphate of Iron ( $FeSO_4$ ) in weak solution of  $H_2SO_4$  in a dish. Hold papers over this and the writing becomes visible. ①

Hydrogen Selenate ( $H_2SeO_4$ )  
Hydrogen Tellurate ( $H_2TeO_4$ ) ②

Uranyl acetate ( $UO_2(C_2H_3O_2)_2 \cdot \frac{1}{2}H_2O$ )  
and Ammonium Phospho-Molybdate ( $(NH_4)_2OP_2O_5 \cdot 23MoO_3 \cdot 12H_2O$ ) ③

Cobalt Nitrate  
Potassium--Ferro Cyanide Det. Ferric Chloride & Oxalic Acid. ④

Arsenite of Potash  
Sodium Tungstate Solution Det. Nitrate of Copper, Iron, Protosulphid and Hydrochloric Acid ⑤

How to open sealed letters without detection. ⑥

Mix 5 ~~drags~~ grains copper acetol arsenate.  
3 ounces acetone  
and add  
1 pint amyl alcohol (fusil-oil)  
Heat in water bath--Steam rising will dissolve the sealing material of its mucilage, wax or oil.  
Do not inhale fumes.

Tetra chlorogunone ( $C_6Cl_4O_2$ )  
Tyrosin and Corallin in combination with ~~stannous~~  
and ~~stannous~~ salts. ⑦

*Stannous* *Stannic*

Selenium and Tellurium salts  
to generate =  $H_2Se$  and  $H_2Te$  and  
Uranium compounds (developed) ⑧

To be written with a symphonette  
ink, to impregnate plain typewriter  
ribbons which was to be used on a  
specially made typewriter machine  
with rubber composition types ⑨