

numerous; action on a greater thickness of tissue; duration of application longer.

3. Apparatus with interposition of thick filter. Rays very few; action on a very great depth of tissue; duration of application very long.

As mentioned, the tubes were formerly much used. A modification of these tubes and the manner in which they are to be utilized has been perfected by Dr. Dominici. This series of tubes, when in their metal case, can be linked together in the form of a chain, or to appear star-like, or as a triangle or otherwise, and arranged so as to conform to the surface of the tumor to be treated. But the flat surface instrument is the one now used in the Paris Laboratory for application to cutaneous surfaces, and in order that the surface tissue of angiomatic tumors, swollen wine stains and other lesions to be acted on should not be injured, screens are employed as above noted to exclude the beta rays, which are apt to produce inflammatory action. With this end in view Drs. Wickham and Degrais devised several methods of procedure, among which is that of the "Feu Croise" or cross fire.

This method consists in applying to the tumor several apparatuses placed opposite to one another two by two, for a shorter time than that for which each of the apparatuses would cause a surface irritation. By this method all the rays act, both the very penetrating ones and those less so, with multiplication of the former and without surface reaction. The length of the application is reduced and also the duration of the treatment. The apparatus may be employed naked or covered with any of the series of screens as the requirements of the case demand.



FIGURE 1.