

vestigation was the identification of probable sources of foreign limb and head hairs and various fibers found in Frank's body and on pieces of the airplane wreckage. The fragments of flight bag found driven into the life jacket fabric were most significant. Similar fragments were also found in Frank's socks and in pieces of the floor matting. Many fiber comparison examinations were required in pinpointing the probable source of these blue nylon fibers.

A microscopic and macroscopic examination of Frank's right hand revealed a limited number of blue fibers, blue discolorations, and hairs which appeared to have been singed at the tips. A short piece of yellow-green silk yarn which had been driven to the bone of a finger and a fragmented piece of yellow-green silk cloth from the bone of Frank's left arm microscopically matched the material of Frank's tie in color, composition, construction, and design.

A blue T shirt was found at the crash scene and identified as belonging to Julian Frank. It bore multiple punctures caused by flying objects which had penetrated the shirt while it was folded.

A small piece of olive-colored cloth found in Frank's body and the olive-colored cloth of Frank's trousers were alike in color, composition, construction, and design. The seam and stitching in the piece of cloth corresponded to the inside seam and stitching in the remaining portion of the left leg of the trousers. The 3-ply gray cotton sewing thread used to bind the edge was like the threads used to stitch the leg seams and bind the cloth edges of the trousers. An edge contour of the piece of cloth and a diagram of the irregular lengths of broken yarns in the area were consistent with those of the inside seam area of the trousers. The conclusion from the microscopic examination was that the piece of cloth had been torn from Frank's trousers.

Instrumental Analyses

Chemistry, according to the "Report for Analytical Chemists" in the June, 1962, issue of ANALYTICAL

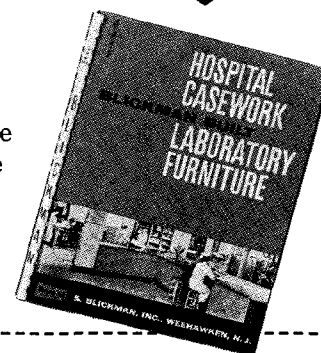
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