

PROJECT GLAZING THE END OF FILTER RODS USING A PLATE WITH A PROTRUDING NEEDLE PROJECT NO T-5497
HEATED SURFACE WITH A PROTRUDING NEEDLE. DATE 9-FEB-71

ANOTHER POSSIBLE METHOD OF GLAZING FILTER RODS WAS INVESTIGATED USING A PLATE WITH A PROTRUDING NEEDLE.

ONE END OF THE FILTER ROD WAS PUSHED AGAINST THE NEEDLE AND PRESSED DOWN UNTILL THE END OF THE FILTER ROD TOUCHED THE HOT SURFACE OF THE PLATE. THE END OF THE FILTER ROD IS, THEREFORE, COMPLETELY SEALED OFF BUT FOR A SMALL HOLE MADE BY THE NEEDLE.

IT WAS FOUND THAT P.D. INCREASES ARE DIRECTLY RELATED TO THE DIAMETER OF THE HOLE.

AN 80/44000 FILTER ROD WAS GLAZED THIS WAY TO OBTAIN AN INCREASE IN P.D. OF 2".

A 15MM SECTION WITH THE GLAZED PORTION WAS ATTACHED TO A PLAIN DU MAURIER CIGARETTE AND SMOKED.

THE FILTER WAS CUT LONGITUDINAL AND A TAR ACCUMULATION WAS FOUND AROUND AND

LONGITUDINAL TO THE HOLE.

WITH THIS METHOD P.D. INCREASES ARE EASIER TO CONTROL THAN FILTER RODS GLAZED ON A HOT SOLID SURFACE (WITHOUT A NEEDLE).

THE SCREEN WIRE GLAZING METHOD, HOWEVER, IS PREFERRED AS THE ENDS OF FILTER RODS ARE MUCH LESS FLUTTERED OUT WHICH WILL MAKE ASSEMBLING OF FILTER WADS TO CIGARETTES MORE EASIER.

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AUTHOR E. W. SENDERHERR DATE 9-FEB-71
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