

Title (en)  
Buttonholing machine

Title (de)  
Knopflochmaschine

Title (fr)  
Machine pour boutonnères

Publication  
**EP 2163671 A1 20100317 (EN)**

Application  
**EP 09169836 A 20090909**

Priority  
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Abstract (en)  
The invention relates to a buttonholing machine (1). The buttonholing machine (1) includes stress detecting means (20) for detecting a stress ( $\bar{A}n$ ) applied to a knife (11) when forming a buttonhole, cumulating means (20) for cumulating, each time the buttonhole is formed, the stress ( $\bar{A}n$ ) detected by the stress detecting means (20) to calculate a cumulated stress ( $\Sigma\bar{A}n$ ), storing means (24) for storing a threshold stress ( $\bar{A}a$ ) that causes a wear-out or a breakage of the knife (11), and informing means (66) for informing a user of a replacement of the knife (11). When the cumulated stress ( $\Sigma\bar{A}n$ ) reaches the threshold stress ( $\bar{A}a$ ) or before the cumulated stress ( $\Sigma\bar{A}n$ ) reaches the threshold stress ( $\bar{A}a$ ), the control means (20) controls the informing means (66) to inform the user of the replacement of the knife (11).

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