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**ANALYSIS OF PRINTING TECHNOLOGIES DEVELOPMENT
WITH ANILOX ROLLER APPLICATION**

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***Research methodology.*** *In the present study the in-depth analysis on the development dynamics of inking units, printing processes, materials and equipment that use an anilox roller has been carried out. This analysis is based upon the patent search with 10 years depth and “anilox” keyword. The patent search has been conducted using online services such as Espacenet and Google Patents.*

***Results.*** *The results of**the presented study show the great amount of new inventions that deal with the ink transfer unit with anilox roller application. 532 relevant patents have been analyzed. According to the IPC codes the main patent developments areas are identified: inking units, printing press components, surface of printing press rolls, methods of anilox roller cleaning, anilox roller application in various printing technologies, anilox engraving techniques. The USA is the most assertive among developed countries that have got many patents. It should be noted that most patents inventors are leading printing and publishing companies.*

***Novelty.*** *The analysis of recent inventions and utility models that use an anilox roller has been done which outlines the main trends and development areas of ink transfer technologies.*

***The practical significance.*** *The results obtained from conducted patent research will help to highlight the main key features for further research of ink behavior and ink coating uniformity prediction on the substrate surface.*