

Title (en)  
ENHANCED ROLLER REGISTRATION SYSTEMS AND ASSOCIATED STRUCTURES

Title (de)  
VERBESSERTE ROLLENREGISTRIERUNGSSYSTEME UND ENTSPRECHENDE STRUKTUREN

Title (fr)  
SYSTÈMES AMÉLIORÉS D'ALIGNEMENT DE ROULEAUX, ET STRUCTURES ASSOCIÉES

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Application  
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Abstract (en)  
[origin: WO2014047515A1] Enhanced systems and associated structures are configured to efficiently remove moisture in printing environments, such as for ceramic printing systems that are configured to transport ceramic tiles past one or more print bars. In an exemplary embodiment, one or more vacuum plenums are provided for each print bar, wherein the vacuum plenums are specifically shaped to provide a desired, i.e. consistent, pressure differential in the region, e.g. to provide sufficient a sufficient vacuum force across a printing width of a transport belt, to adequately remove the moisture and other impurities from the region. While some systems may provide both pre and post print bar plenums, some preferred embodiments may preferably provide a single plenum with respect to each print bar, i.e. either before or after each respective print bar, such that the entire printing system may be more compactly packaged.

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- [XAI] US 2003223786 A1 20031204 - KAMOSHITA MIKIO [JP], et al
- [IY] US 2009234498 A1 20090917 - TAKAHASHI MINORU [JP], et al
- [IY] EP 1783070 A1 20070509 - GOODYEAR TIRE & RUBBER [US]
- [XI] JP 2010269876 A 20101202 - YAMAUCHI CORP
- [IJ] US 2010300604 A1 20101202 - GOSS WILLIAM KREBS [US], et al
- [A] JP H02230276 A 19900912 - HITACHI KOKI KK
- [IJ] US 2003076380 A1 20030424 - YUSEF HASEEB [US], et al
- See references of WO 2014047512A2

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