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**(54) Title (EN):** PRINTED REFLECTIVE SHEET MANUFACTURED USING OPEN-TYPE BEADS

**(54) Title (FR):** FEUILLE RÉFLÉCHISSANTE IMPRIMÉE FABRIQUÉE À L'AIDE DE PARTICULES DE TYPE OUVERTES

**(54) Title (KO):** 오픈타입 비드 제조방식을 이용한 인쇄 반사 시트

**(57) Abstract:**

**(EN):** The present invention relates to a printed reflective sheet manufactured using open-type beads and, more specifically, provides a printed reflective sheet comprising: a base sheet; an adhesive layer formed on the base sheet; a reflective film which is formed on the adhesive layer and has reflective beads protrusively embedded therein; an ink fixing layer formed on the reflective film and on the protruding portions of the reflective beads; a printed layer formed on the ink fixing layer; and a transparent protective layer formed on the printed layer, wherein the ink fixing layer, printed layer, and transparent protective layer are formed in a curved structure corresponding to the protruding portions of the reflective beads. Accordingly, the open-type printed reflective sheet has not only high reflective brightness but also excellent recognizability of a printed image.

**(FR):** L'invention concerne une feuille réfléchissante imprimée, fabriquée à l'aide de particules de type ouvertes. Plus particulièrement, la feuille réfléchissante imprimée comprend: une feuille de base; une couche adhésive formée sur la feuille de base; un film réfléchissant formé sur la couche adhésive et incorporant des particules réfléchissantes protubérantes; une couche de fixation d'encre formée sur le film réfléchissant et sur les parties protubérantes des particules réfléchissantes; une couche imprimée formée sur la couche de fixation d'encre; et une couche protectrice transparente formée sur la couche imprimée. La couche de fixation d'encre, la couche imprimée et la couche protectrice transparente présentent une structure bombée correspondant aux parties protubérantes des particules réfléchissantes. Ainsi, la feuille réfléchissante imprimée de type ouverte présente non seulement une brillance de réflexion élevée, mais aussi une excellente identification d'une image imprimée.

**(KO):** 본 발명은 오픈타입 비드 제조방식을 이용한 인쇄 반사시트에 관한 것으로, 보다 상세하게는 기재 시트; 상기 기재 시트 상에 형성된 접착층; 상기 접착층 상에 형성되고, 반사 비드가 돌출된 구조로 매입된 반사 필름; 상기 반사 필름 상에 형성되고, 상기 반사 비드가 돌출된 면에 형성된 잉크 정착층; 상기 잉크 정착층 상에 형성된 인쇄층; 및 상기 인쇄

층 상에 형성된 투명 보호층을 포함하고, 상기 잉크 정착층, 인쇄층 및 투명 보호층은 상기 반사 비드의 돌출 구조와 대응되는 굴곡 구조로 형성된 인쇄 반사 시트를 제공한다. 본 발명에 따르면, 오픈 타입으로서 높은 반사 휘도를 가짐은 물론, 인쇄된 이미지의 식별력이 우수하다.

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