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(54) Title (EN): CONNECTION STRUCTURE OF SAND BLAST NOZZLE AND NOZZLE CONNECTOR

(54) Title (FR): STRUCTURE DE RACCORDEMENT DE BUSE DE SABLEUSE ET CONNECTEUR DE BUSE

(54) Title (KO): 샌드블라스트 노즐의 연결구조 및 노즐 연결용 커넥터

(57) Abstract:

(EN): The present invention relates to an improved connection structure of a sand blast nozzle, by which a leakage does not occur from a connection portion between a spray hose and a nozzle in a sand blast device and connection operation is convenient. The connection structure comprises: a nozzle tube which is coupled to an end portion of a rubber hose which is the spray hose of the sand blast, provides a conveying passage of a spray material, and is provided with a spray hole at the front end thereof and a wedge member at the rear end thereof, wherein the wedge member radially protrudes to serve as a wedge by digging into the internal circumferential surface of the rubber hose; and a cover tube which is in contact with the rear end of the wedge member and inserted around the nozzle tube. An angle between a coupling direction of the rubber hose and the nozzle and an inclined surface of the front end of the wedge member forms an obtuse angle, and an angle between the coupling direction of the rubber hose and the nozzle and an inclined surface of the rear end of the wedge member forms an acute angle. In addition, when the cover tube is completely inserted around the nozzle tube, the cover tube blocks the inclined surface of the rear end of the wedge member so that the wedge member cannot function as a wedge.

(FR): La présente invention concerne une structure de raccordement améliorée d'une buse de sableuse, grâce à laquelle il ne se produit pas de fuite à partir d'une partie de raccordement entre un tuyau de pulvérisation et une buse dans un dispositif de sablage, et une opération de raccordement est pratique. La structure de raccordement comprend : un tube de buse qui est accouplé à une partie d'extrémité d'un tuyau en caoutchouc qui est le tuyau de pulvérisation du jet de sable, fournit un passage de transport d'un matériau de pulvérisation, et est pourvu d'un trou de pulvérisation au niveau de son extrémité avant et d'un élément de coin à son extrémité arrière, l'élément de coin faisant saillie radialement pour servir de coin par creusement dans la surface circonférentielle interne du tuyau en caoutchouc; et un tube de couvercle qui est en contact avec l'extrémité arrière de l'élément de coin et inséré autour du tube de buse. Un angle entre une direction d'accouplement du tuyau en caoutchouc et la buse et une surface inclinée de l'extrémité avant de l'élément en coin forme un angle obtus, et un angle entre la direction d'accouplement du tuyau en caoutchouc et

la buse et une surface inclinée de l'extrémité arrière de l'élément en coin forme un angle aigu. De plus, lorsque le tube de couvercle est complètement inséré autour du tube de buse, le tube de couvercle bloque la surface inclinée de l'extrémité arrière de l'élément de coin de telle sorte que l'élément de coin ne peut pas fonctionner comme un coin.

(KO): 본 발명은 샌드블라스트 장치에 있어서 분사호스와 노즐의 연결부위에서 누설이 생기지 않으며 연결작업이 편리하도록 개선된, 샌드블라스트 노즐의 연결구조에 관한 것이다. 그의 구성은; 샌드블라스트의 분사관이 되는 고무호스의 단부에 결합하는 것으로서; 분사물질의 이송통로를 제공하는 것으로서, 선단에는 분사구가 마련되고 후단에는 상기 고무호스의 내주면을 파고들어 쐐기의 역할을 하도록 반경방향으로 돌출 형성된 쐐기부재가 마련되는 노즐관; 상기 노즐관의 외부에 끼워지는 상기 쐐기부재의 후단에 맞닿게 되는 커버관;을 포함하는 것으로서, 상기 고무호스와 노즐의 결합방향과 상기 쐐기부재의 선단 경사면 사이의 각도는 둔각으로 되어 있으며; 상기 고무호스와 노즐의 결합방향과 상기 쐐기부재의 후단 경사면 사이의 각도는 예각으로 되어 있으며; 상기 커버관은 상기 노즐관에 완전히 끼워질 때 상기 쐐기부재의 후단 경사면을 가림으로써 상기 쐐기부재가 쐐기의 역할을 하지 못하도록 하는 것을 특징으로 한다.

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