

專利/技術名稱	拇指腕掌關節置換套件 CAPPING ASSEMBLY FOR THUMB CARPOMETACARPAL JOINT		
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專利國別	中華民國	專利證號	I662944
可利用範圍	一種3D列印出的關節置換套件來重建拇指腕掌關節，讓使用的患者能以恢復正常人體工學的方式使用拇指，並具有置換容易、消除疼痛、手術後癒合良好且耐用的效果。		
摘要	<p>一種拇指腕掌關節置換套件，包括兩3D列印的金屬關節骨材，各關節骨材是在一套殼的內面表覆蓋形成一網狀結構，在各套殼的前面形成馬鞍狀的關節面，在各套殼的左右兩側各設有一對固定韌帶孔；本發明使用時是將兩關節骨材分別套設在拇指腕掌關節的相對骨頭，以兩關節面的配合形成拇指基部的鞍狀關節，由於各關節骨材是以網狀結構接觸骨頭，加上可將各骨頭兩側的韌帶繫綁在各關節骨材的兩對固定韌帶孔處，因此應用本發明除了能重建患者原來正常的拇指腕掌關節解剖構造以外，還能提升骨頭癒合的效果與關節的耐用性，同時治療腕掌關節不穩定的問題。</p> <p>Present invention is related to a capping assembly for thumb carpometacarpal joint comprising two metal capping units produced by 3D printing. Each metal capping unit comprises a capping shell with a reticulate structure being disturbed on its inner surface, a saddle shaped structure being formed on its front side and two fasten holes being respectively placed on its left and right sides. The present invention is able to be capped on the thumb carpometacarpal joints of a patient with the reticulate structure being contacted with the thumb carpometacarpal joints. The present invention is able to be fasten on the thumb carpometacarpal joints of the patient through the fasten holes being tied with ligaments of the patient. Since the saddle shaped structure of each metal capping unit is shaped according to a surface of the thumb carpometacarpal joints of the patient, the present invention is able to replace or reconstruct the original thumb carpometacarpal joints of the patient and also enhance healing ability and durability of the thumb carpometacarpal joints with solving unstable problems at meanwhile.</p>		