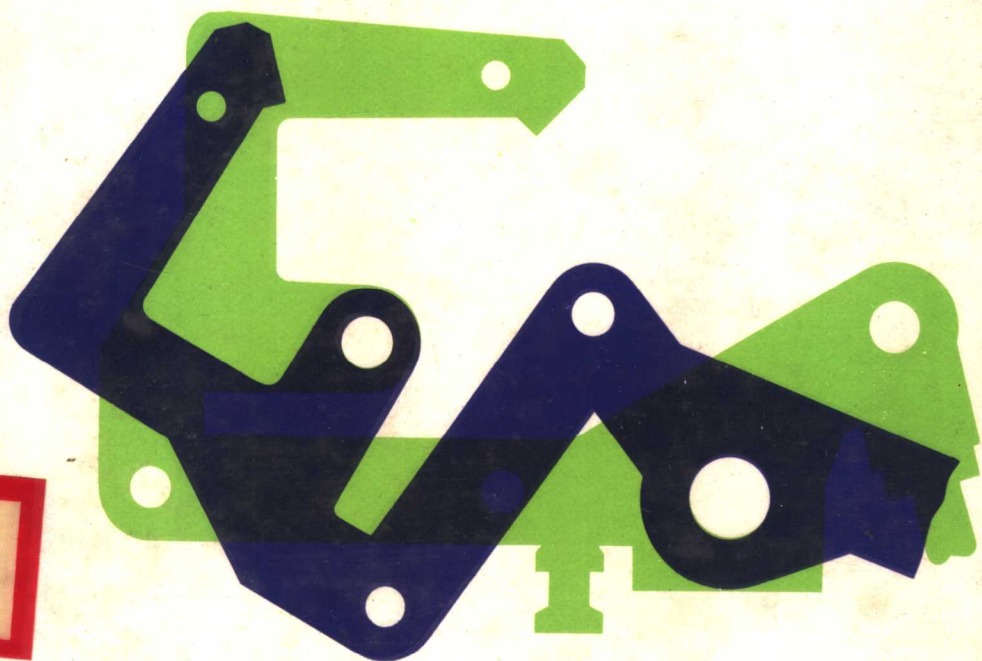


實用設計圖集 1

治具・夾具

JIGS AND FIXTURES

by: HIRAM E. GRANT
孫光雄／洪正利 合譯



大眾書局印行

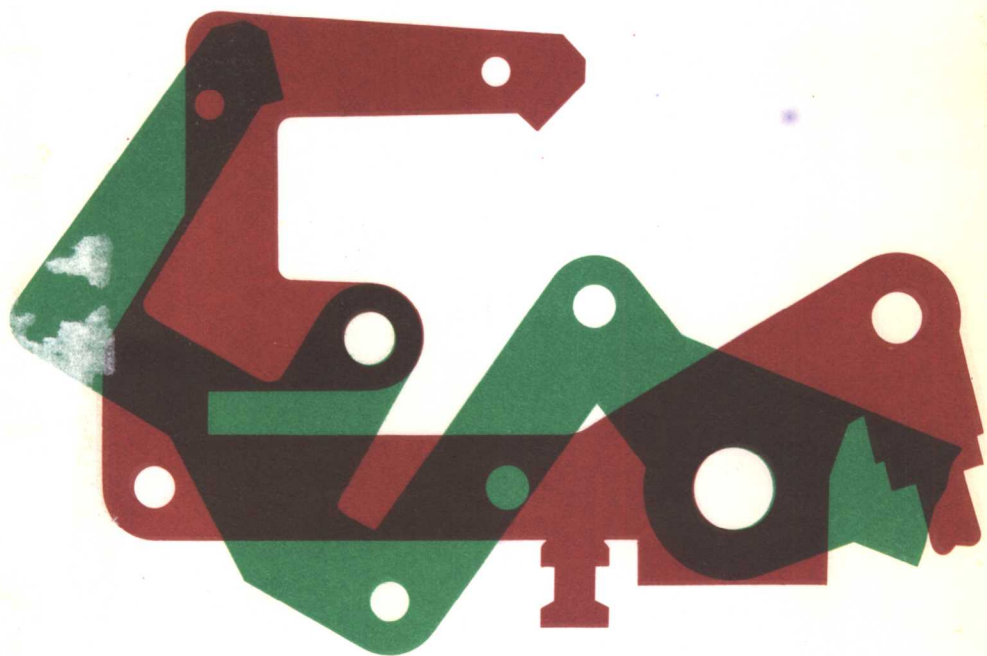
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HIRAM E. GRANT 著

孫光雄 洪正利合譯

治具

JIGS AND FIXTURES

Non-standard Clamping Devices

HIRAM E. GRANT

Professor Emeritus, Washington University, St. Louis

JIGS AND FIXTURES

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初學或熟練之設計者，對於無標準化而有缺點的夾緊裝置資料，在於各工廠往往無意識之下，將資料存放於書夾中，這些無標準化的裝置資料，在各類書籍中尚無完整。

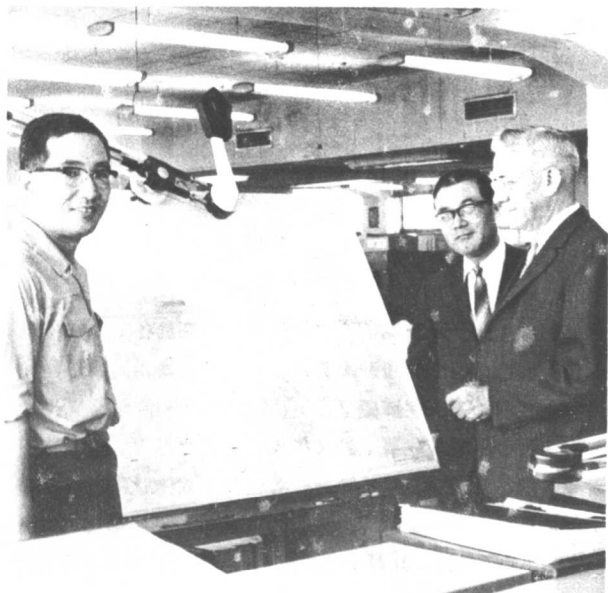
初學設計者之知識構想出新方法或利用既存裝置，必須稍修改後才能使用。又初學設計者，在檢討三十種牽動夾緊裝置是件困難之事，恐其對課題能隨時應用，無法在短期間內完成。然而為使初學設計者能在短期間成為熟練設計者起見，故作者將有系統的收集這些無標準化夾緊裝置，加以編輯；又承蒙世界上十八個國家 506 個工廠提供資料，尤其美國 200 所工廠，日本 23 所工廠提供設計圖，總共費了 7 個月始將完成，而付梓於世。

本書以提高初學及熟練設計者的觀念為目的。不像汽車、收音機、電熱器等那樣的有詳細的裝置專集。又另一目的是本書所提供每一項的觀念，作為初學設計者的參考與研究，且盡其所能使在很短期間內達到熟練者之境界。

在大工廠也常使用到少量生產用的夾緊裝置，因為大工廠裏常有機器零件換修之工作，因此必須要使用治具與夾具。

收集的夾緊裝置資料，也有幾年以前使用過的而經更改後現在在使用。又初學設計者所著作的治具與夾具未必盡然完善，故需加以修改，在此書圖例中也有別人已經使用過。在各工廠種種的夾緊裝置資料，很可能是從本書的圖例經更改再使用。大部份設計圖是應各工廠之需要而設計的或從其他得來的，以上資料翻印如有錯誤之處尚祈原諒。

普通應用上的夾緊，祇在於適應各工廠之需，對於特別夾緊裝置不一定能普遍使用。在作者的立場，本書中有若干項可成商品化，又商品化的夾緊裝置原資料是從世界各



國收集的。若干國家有實行商品化，但也有不實施商品化。關於間隙，定位梢，螺絲，鍵等，在圖中未明顯表示出來，在夾緊構造不明瞭的部份刪除，但初學設計者為了解此意，必須在圖上附簡單的注釋。同一形式的夾緊裝置若稍加思考其他形式的夾緊裝置，即可變更較好設計。例如內部的夾緊，內部的夾緊裝置中，或心軸也可變更其設計。在自動夾緊裝置章程內的夾緊，根據其他設計者的完全自動夾緊裝置，如無驅動力夾緊加以修改而成。

由於對夾緊機構要有適當的名稱，故接受各方的意見，有 51 種類夾緊機構名稱是郵寄給很多設計者命名的，但其 51 種類名稱全都不一樣，因此本書對於夾緊裝置名稱夾緊機構圖形註明而得的。

本書的原資料大都是屬於國際性的，所以本人對此書之著作感覺很滿意。又能得到很多公司學者的贊助，始能著作出內容屬國際性的書本。深深感謝各國公司學者所給予我的勇氣與鼓勵，使我在收集資料期間得到莫大的幫助，終將此書順利完成付梓於世。