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الرحمن الرحيم

الرَّحِيمِ الرَّحِيمِ

إِيَّاكَ نَعْبُدُنَّ إِيَّاكَ نَسْتَعِينُنَّ إِيَّاكَ نَمُتِّيسُونَ

الصَّرَّاعُ المُسْتَقِيمُ

الصَّرَّاعُ الَّذِينَ أَنْعَمَتْ عَلَيْهِمْ غَيْرَ الْمَغْضُوبِ عَلَيْهِمْ

وَلَا الصَّٰلِحَ الَّذِينَ
ABSTRACT

This research presented a new method for the mass production of a high quality, low cost, sheet metal products using a die, press and transferring mechanism.

The research presented a definition of the tool (die), its design, its parts and the types which differ as per the products and operations concerned.

The researcher selected the progressive die used for mass production, for more elaborated studies because it combines a number of die design and function in one frame. The researcher also discusses the maximum use of raw material (strip layout).

One of the Yarmouk Industrial Complex products formally produced by five individual dies. Anew one progressive die was designed for this product, using the well known package (VISI 15) software dedicated for sheet metal products die and mould design.
قدم هذا البحث طريقة جديدة للإنتاج الكمي لمنتجات الصفائح المعدنية ذات الجودة العالية والأقل تكلفة باستخدام القالب والمكبس كالية تحريكية للقالب.

قدم البحث تعريف لهذه الآداة (القالب) وكيفية تصميمها وتجزئة ووظائفها وانواعها التي تختلف باختلاف المنتجات والعمليات، ثم اختار الباحث نوع واحد من هذه الانواع وهو قالب الإنتاج الكمي التقدمي المستمر (Progressive) لدراسةه بتوسع أكثر لأنه يضم مجموعة من القوالب في طرق تصميمها ووظائفها في إطار واحد وتعرض البحث لامكانية الاستفادة القصوى من المادة الخام.

أُخْتِيَر منتج من مجمع اليرموك الصناعي كان ينتج بواسطة خمسة قوالب مفردة وصمم قالب واحد لانتاج المنتج وتم ذلك باستخدام البرنامج الحاسوبي (Visi 15) المتخصص لتصميم القوالب.
ACKNOWLEDGEMENTS

I would like to thank my Supervisor for his professional advice and assistance. Dr. ALKHAWAD ALI ELFAKI served as a mentor and directed me along the traveled path and he surrendered many valuable days revising my work.

My friends deserve credit for turning monotonous work into a great deal of fun. They always seemed to know when to encourage me to work on this research or do something interesting. Particular thanks go to: M.M. EISA, ALLA ALDEEN KHAIR and G.O. NEAMA, MY brothers and sisters were great friends, and for all in TAFRA engineering company and in ALYARMOUK industrial complex.

Finally, I dedicate this work to my mother and father, who have always given me the inspiration and enthusiasm to accomplish everything I desired. They never pushed me in any one direction, but seemed to wisely guide me down the right road. Thanks Mom and Dad.
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