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The  
United  
States  
of  
America



**The Director of the United States  
Patent and Trademark Office**

*Has received an application for a patent for  
a new and useful invention. The title and  
description of the invention are enclosed.  
The requirements of law have been com-  
plied with, and it has been determined that  
a patent on the invention shall be granted  
under the law.*

*Therefore, this*

**United States Patent**

*Grants to the person(s) having title to this  
patent the right to exclude others from mak-  
ing, using, offering for sale, or selling the  
invention throughout the United States of  
America or importing the invention into the  
United States of America, and if the inven-  
tion is a process, of the right to exclude oth-  
ers from using, offering for sale or selling  
throughout the United States of America, or  
importing into the United States of  
America, products made by that process,  
for the term set forth in 35 U.S.C. 154(a)(2)  
or (c)(1), subject to the payment of mainte-  
nance fees as provided by 35 U.S.C. 41(b).  
See the Maintenance Fee Notice on the  
inside of the cover.*

*Joseph Matal*

Professor of Economics and Director of the  
Center for Economic Studies, University of  
Colorado at Boulder  
Director of the United States Patent and Trademark Office

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