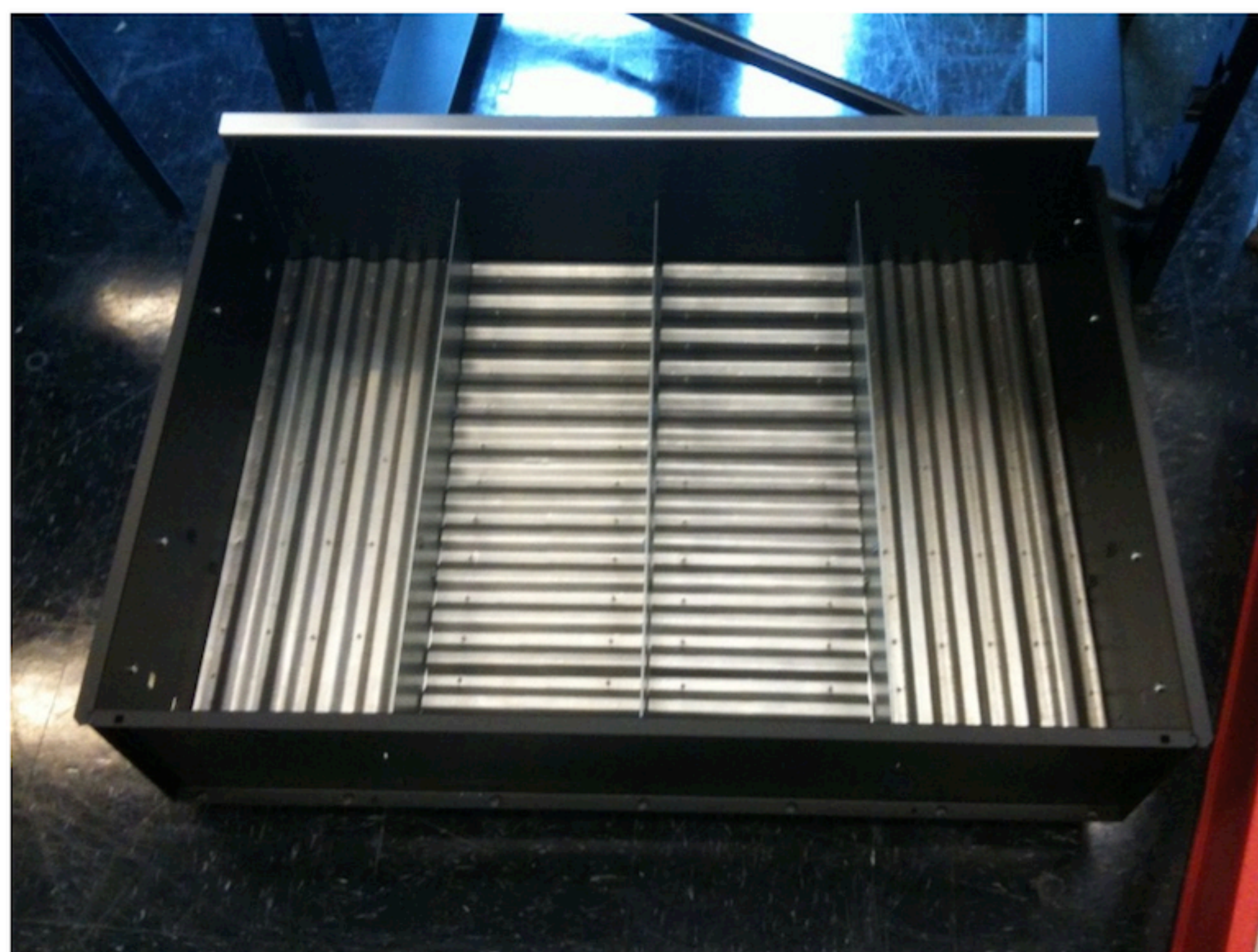


Design and Global Market Analysis of a Tool Cabinet

Initial Design Ideas

- Lighting
- Stiffening drawer
 - Steel corrugations
- Charging system
- Cabinet linings
 - Damage resistant
- RFID
- Barcode
 - Barcode types
 - Laser etching
 - Software



Dropped Ideas

- Lighting
 - No sponsor interest
- RFID
 - Too expensive
 - Material incompatibility

Design Team Objectives

Improve Drawer Design

- Assess weaknesses in drawer design
- Assess affordable/feasible option

Explore New Cabinet Features

- Tool management
- Assess functional features
- Assess attraction/marketability
- Consider the retail market



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VERSATILITY TOOL WORKS AND
MANUFACTURING COMPANY, INC.

Focus: Barcode System

- Feasible/inexpensive
- Software under development
- Functions:
 - Check in
 - Check out
 - User ID
 - Log time
 - Tool information/condition



Tasks for Future IPROs

- Cabinet linings
- Laser etched barcodes
 - Etching is cheap
 - Look into scanning solutions ('smart')
- Corrugated drawer
 - Already created
 - Testing under preferred conditions (i.e. locks both sides)