

# Future of the Hardwood Lumber Industry

*What will the Future  
Hardwood Mill Look Like?*



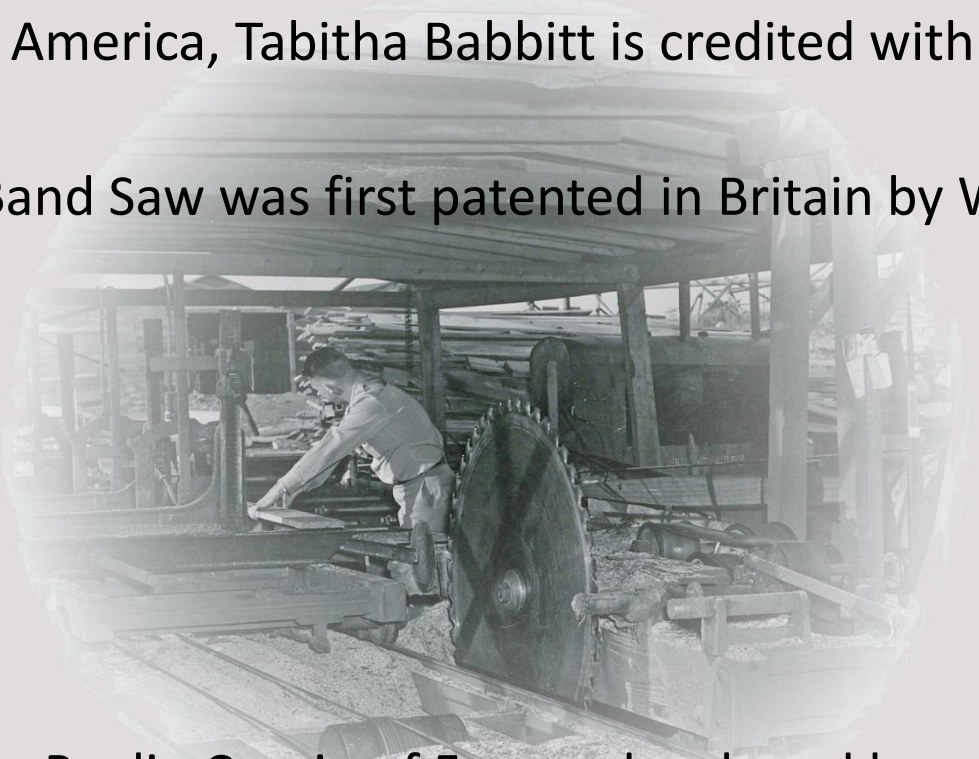
NHLA



VirginiaTech  
*Invent the Future*



# History

- 1777 - The Circle Saw was first patented in Britain by Samuel Miller.
  - 1810 ca. - In America, Tabitha Babbitt is credited with inventing a circle saw.
  - 1808 - The Band Saw was first patented in Britain by William Newberry.
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- A circular inset image showing a man operating a large circular saw in a workshop. The man is wearing a light-colored shirt and dark pants, and is leaning over the saw. The saw is a large, circular blade mounted on a frame. The workshop is filled with various tools and equipment, including a large wooden frame and a smaller saw in the background.
- 1840's - Anne Paulin Crepin of France developed band saw "welding" techniques that were the beginning of practical band sawing.
  - 1890's – Patents for both circle gangs and band resaws surface.

# Hardwood Sawmill Of Today

The band saw and circle saw are still here 200 years later producing hardwood lumber.





# Hardwood Sawmill Of Tomorrow

- **Factors**
  - **Resource**
    - Availability
      - Volume
      - Ability to Log
      - Quality
        - Grade
        - Industrial



# Hardwood Sawmill Of Tomorrow

- **Factors**
  - **Markets**
    - Grade
    - Industrial
    - Fixed Widths
    - Random Widths



# Hardwood Sawmill Of Tomorrow

- **Factors**
  - **Labor**
    - Availability
    - Skill Level
    - Costs



# Hardwood Sawmill Of Tomorrow

- **Factors**
  - **By-Products**
    - Chips
    - Bark
    - Dust





# Hardwood Sawmill Of Tomorrow

## Round Table Summary

- Yes, we will still be using Band and Circle Saws.
- “Grade” and “Industrial Product” Mills.
- Advances in Scanning .
- Automatic Grading and Sorting.
- Mill Production

