

**Wayne E. Sirmon**

**HI 202 – United States History**

***HI 202 – Work to be done....***

**On-Line Quiz on Chapter 15 – 29 AUG**

**Article 1 approved – 28 JAN**

**Review 1 due – 4 FEB**

**Exam 1 – 11 FEB**

**Learning Lunch – 12 FEB, noon @ History Museum**

**Book Selection – 18 FEB \*\*\*CHANGE\*\*\***

*HI 202 – Work to be done....*

Book Selection – 18 FEB **\*\*\*CHANGE\*\*\***

**NON-FICTION**

**Related to American History between 1877 and 2000**

**No duplication of books**

**Selection – **First Come – First Serve****

**Sirmon WILL **randomly assign** you a book if you have not chosen one by beginning of class on Feb. 18.**

## *Chapter 16 -*

**GILDED AGE**, comes from the title of the novel *The Gilded Age: A Tale of Today*. Mark Twain and Charles Dudley Warner got the name from Shakespeare's *King John*: "To gild refined gold, to paint the lily... is wasteful and ridiculous excess."

Gilding a lily, which is already beautiful and not in need of further adornment, is excessive and wasteful, characteristics of the age Twain and Warner wrote about in their novel.



Another interpretation of the title, is the contrast between an ideal "Golden Age," and a less worthy "Gilded Age," as gilding is only a thin layer of gold over baser metal, so it now takes on a pejorative meaning.

## *Chapter 16 – American's Gilded Age 1870-90*

**The 2nd Industrial Revolution  
The Transformation of the West**

**Politics in the Gilded Age  
Freedom in the Gilded Age  
Labor and the Republic**

## *Chapter 16 – American's Gilded Age 1870-90*

### **The 2nd Industrial Revolution**

- + natural resources**
- + growing labor supply**
- + capital for investment**
- + expanding market for manufactured goods**

**US Govt – high tariffs**

**land grants for RR construction**

**Native American removals**

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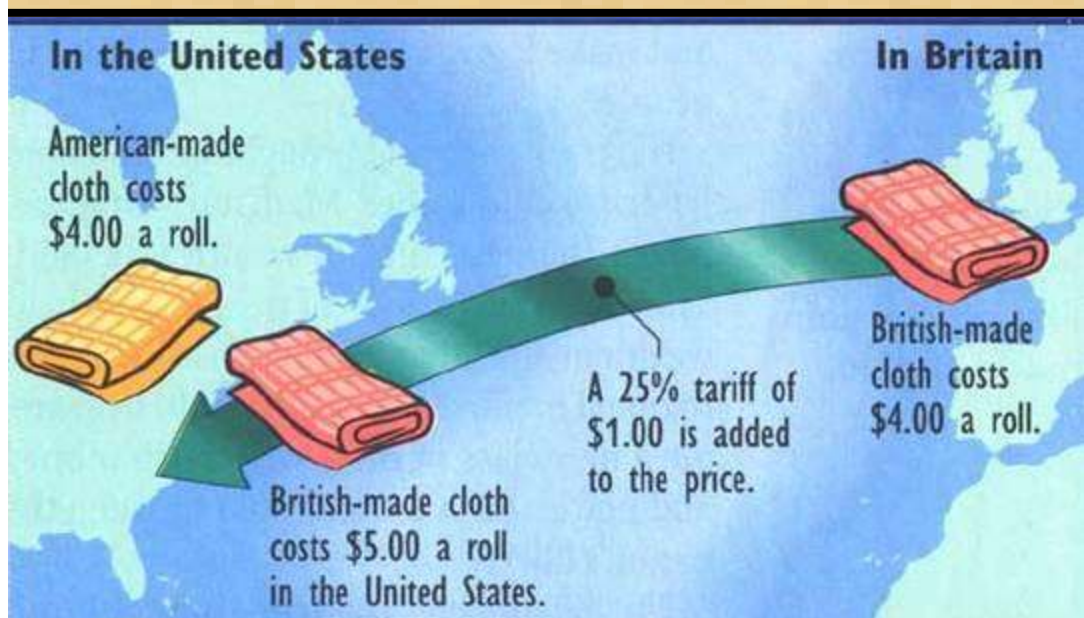
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### The 2nd Industrial Revolution

**US Govt – high tariffs**

**land grants for RR construction**

**Native American removals**





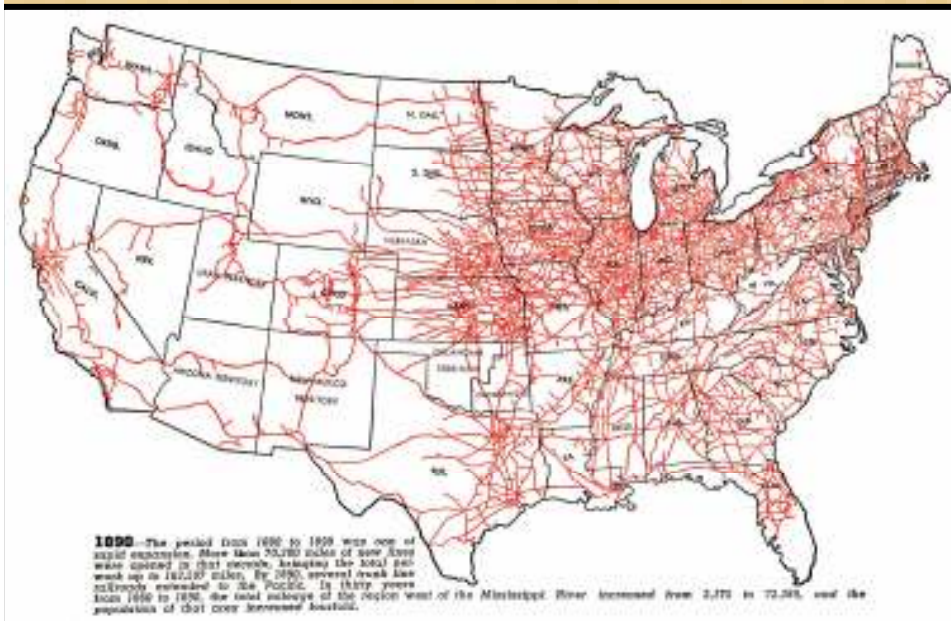
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**US Govt – high tariffs**

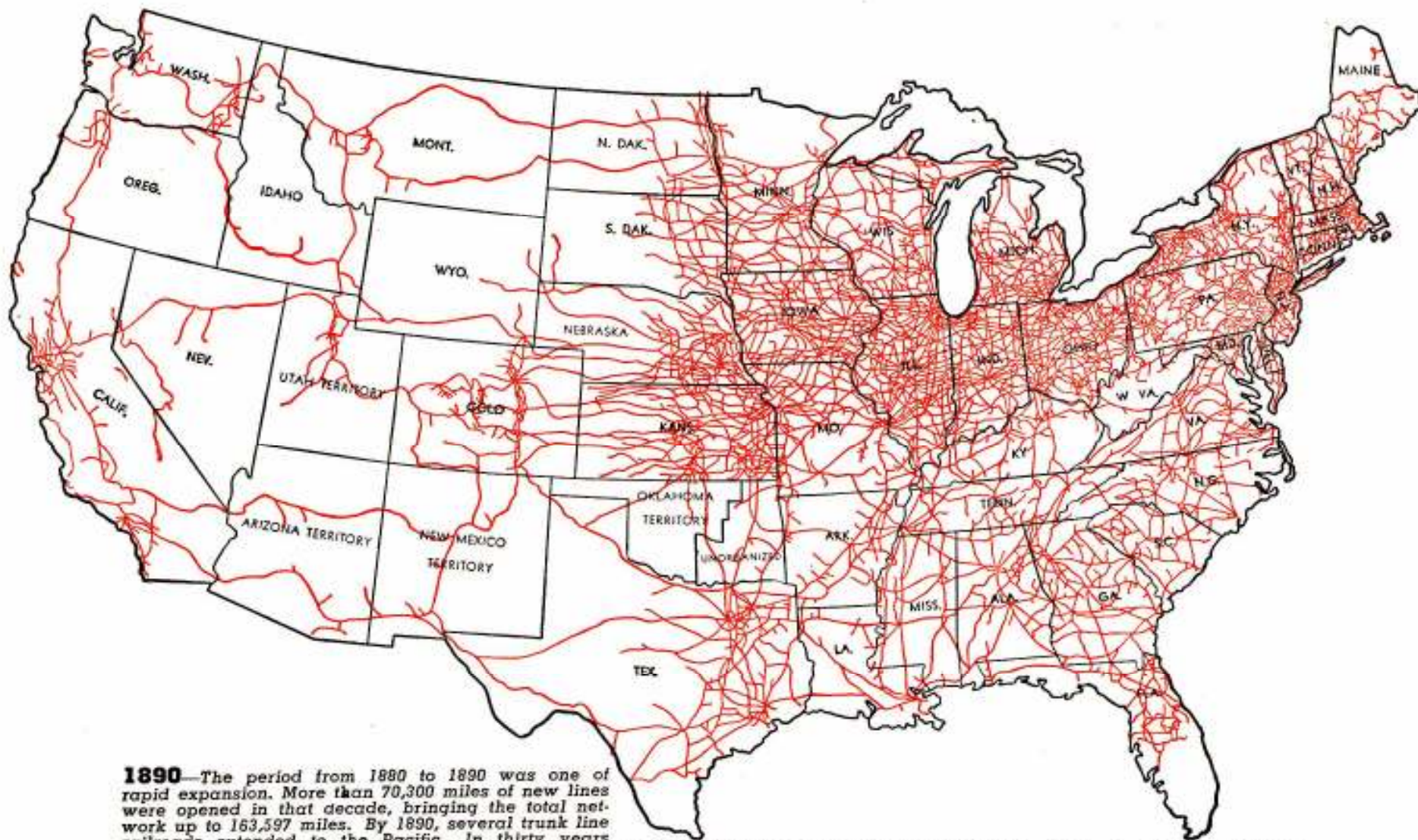
**land grants for RR construction**

**Native American removals**



Rail network : see page 636

## Chapter 16 – American's Gilded Age 1870-90



**1890**—The period from 1880 to 1890 was one of rapid expansion. More than 70,300 miles of new lines were opened in that decade, bringing the total network up to 163,597 miles. By 1890, several trunk line railroads extended to the Pacific. In thirty years from 1860 to 1890, the total mileage of the region west of the Mississippi River increased from 2,175 to 72,389, and the population of that area increased fourfold.

## *Transcontinental Railroad (1862)*

### **Purpose-**

*An Act to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific ocean, and to secure to the government the use of the same for postal, military, and other purposes.*

### **Inducements-**

#### **Land Grants to Railroads:**

200 feet R.O.W. on both sides of railroad

10 square miles of land for every 1 mile of track(5 alternate sections on each side)

#### **Government Bonds:**

30 year bonds at 6% - Paid back after RR in operation and from sale of land

*From 1850-1871, the railroads received more than 175 million acres of public land - an area larger than Texas.*

# *Transcontinental Railroad (1862)*

## **Impact-**

**Speed**

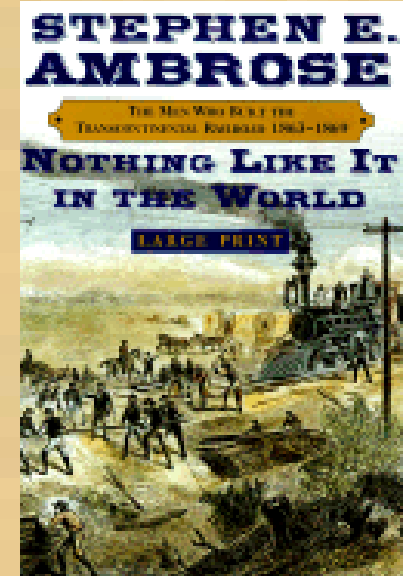
**Volume of goods**

**Reduce isolation**

**The making of “millionaires and billionaires”**

**Disruption of Native Americans**

**“Problem” of Irish and Chinese Immigrant Labor**



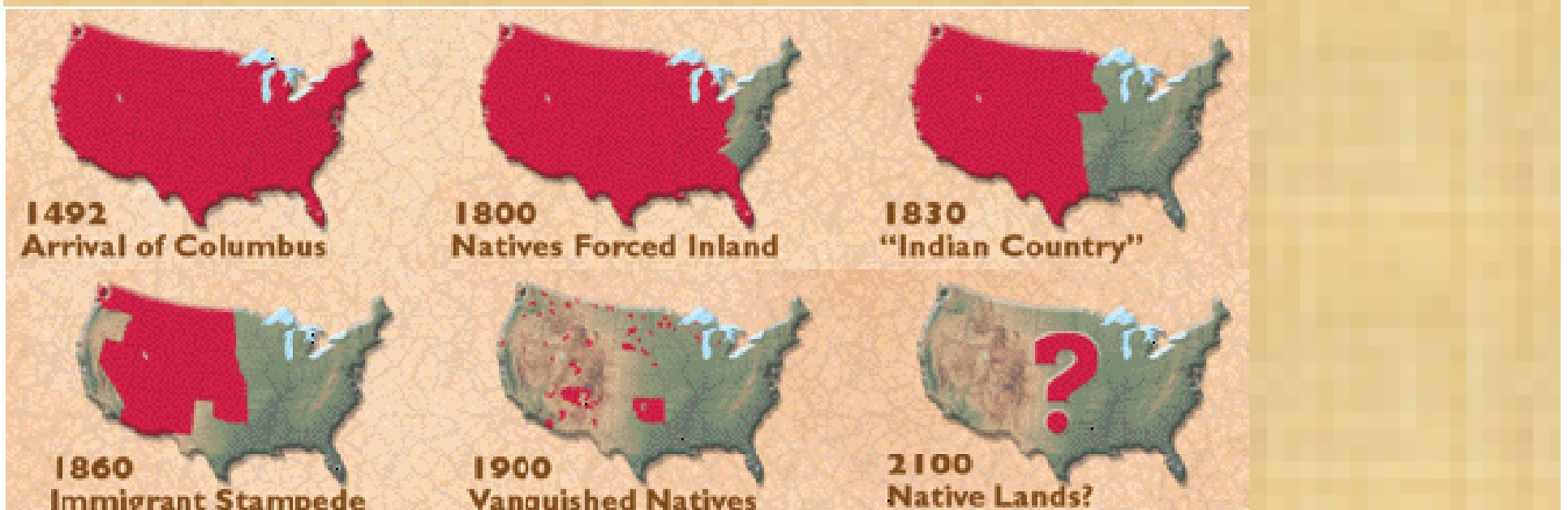
## *Chapter 16 – American's Gilded Age 1870-90*

### **The 2nd Industrial Revolution**

US Govt – high tariffs

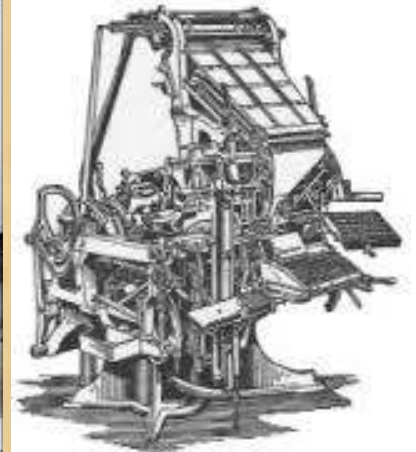
land grants for RR construction

**Native American removals**

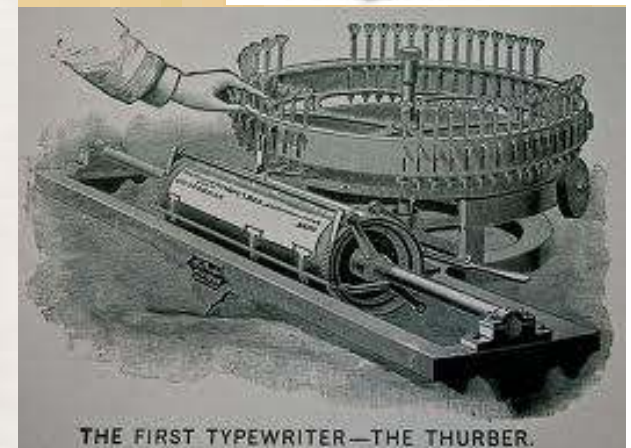


## Chapter 16 – American's Gilded Age 1870-90

“small ideas” our textbook overlooks or barely mentions.....

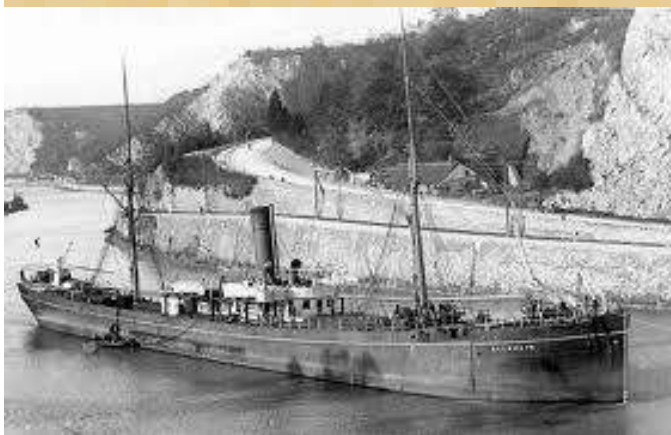
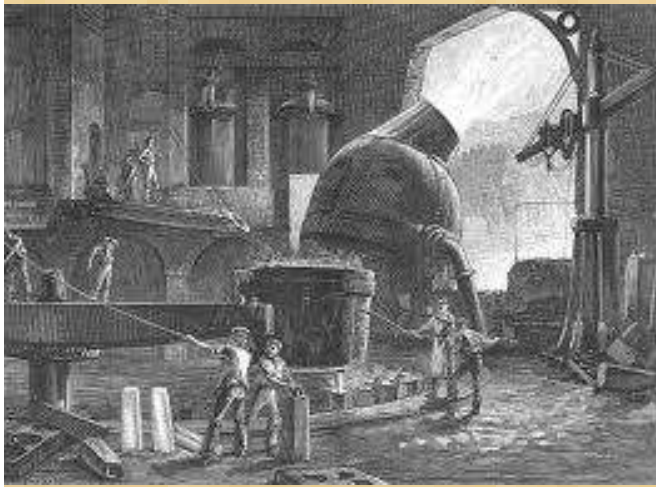


1876 - Bell's original telephone



# Chapter 16 – American's Gilded Age 1870-90

“big ideas” our textbook overlooks.....



“Here, that’s the way I made it.”  
“Here, that’s the way I made it.”

**THE ALTERNATING SYSTEM.**

Independent Electric Lighting from Central Stations made Universal, Economical, and Profitable, irrespective of distance.

**The Westinghouse Electric Co.,**  
PITTSBURGH, PA.  
EXCISE OFFICE, 17 CORTLANDT STREET, NEW YORK.

**WILBUR'S DEAFNESS**



All basic castings are included. Wire for the piping is not included but the sizes of the prototype pipes are noted for the modulator who wishes to go to that detail.

**ASSEMBLY OF UNITS**

**DIAGRAM FOR ATHEARN CARS**

**SIDE VIEW**

**WESTINGHOUSE TYPE "UC" AIR BRAKE SYSTEM FOR ALL STANDARD STEEL PASSENGER CARS**

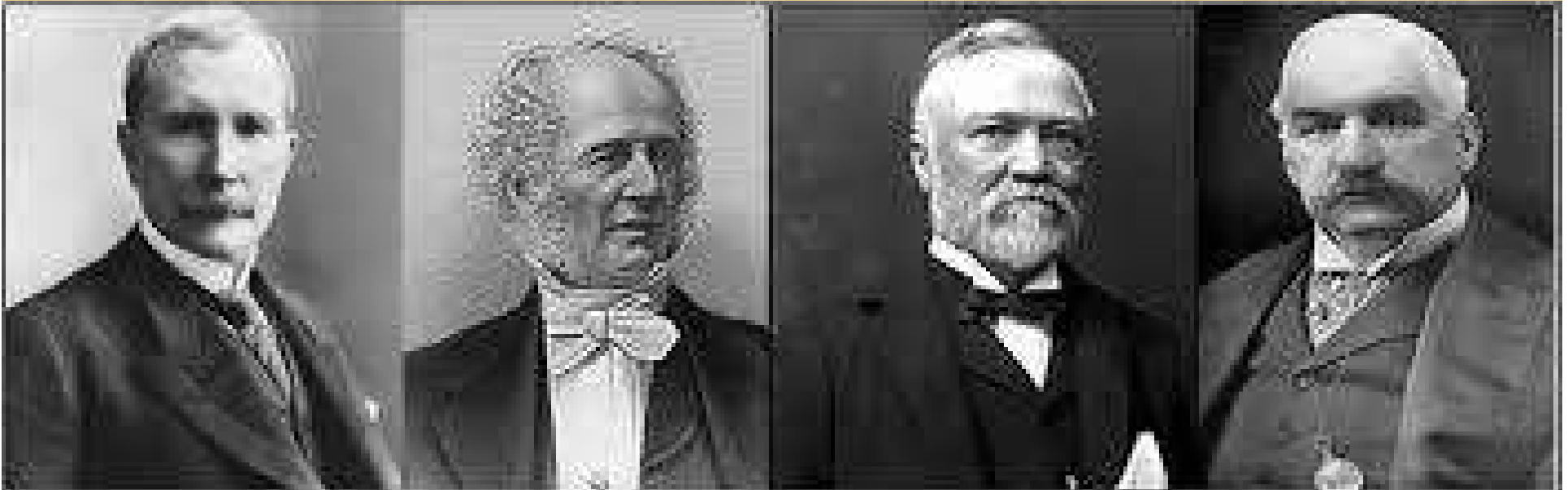
**IMPORTANT** - Separate parts from runner with **EXTREME CARE** using a razor knife. Assemble first, the tanks and valve then the cylinder as follows. Insert piston "P" in hole "H" then snap tip "T" into slot "S". Now slip on bracket "B" and glue the lever supports "L" to bracket at "B" (two points). Last lightly glue levers to cylinder at "H" and "S". The basic unit is now assembled.

**#190-300**

$$V_{full} \approx 1.34 \times \sqrt{LWL}$$

## *Chapter 16 – American's Gilded Age 1870-90*

### **Captains of Industry**



John D. Rockefeller

Cornelius Vanderbilt

Andrew Carnegie

J. Pierpont Morgan

*The "Robber Barons"*