

## Chapter 22

## Corporations: Bonds



## Learning Objective

## Describe the types of bonds, ways bonds differ from common stock, and how the sales price of bonds is determined.

## A Broader View

## A Broader View

## Debt Can Be Dangerous

Horizon Lines, Inc., is the leading Jones Act container shipping and logistics company in the United States, with 20 ships and 22,000 cargo containers. In 2010, it had revenue of almost $\$ 1.2$ billion and assets of $\$ 786$ million. Yet, the auditors' report on this large, apparently strong company's 2010 financial statements included the following passage: ". .. there is uncertainty that Horizon Lines, Inc. will remain in compliance with certain debt covenants throughout 2011 and will be able to cure the acceleration clause contained in the convertible notes. These conditions and their impact on the Company's liquidity raise substantial doubt about Horizon Lines Inc.'s ability to continue as a going concern." In other words, the independent auditors doubted that Horizon Lines would be able to survive as a business, because the company might not be able to meet its debt obligations.

This is a good example of the risk dimension of debt. By issuing stock, a company gives up ownership interest in the business. But when bonds and other types of debt are issued, a company runs the risk of going bankrupt if it cannot make the payments on its debts. Careful analysis and planning are needed in deciding how to finance a business.

- A written promise to pay a specific sum of money at a specific future date
- It is a debt of the corporation
- If not paid, creditors can force the company into bankruptcy
- Usually issued in denominations of $\$ 1,000$ each
- Enables the corporation to obtain large amounts of money by selling bonds to many investors
- Bonds can be classified as to:
- Security
- Timing of payment of principal
- Identification of ownership


## Security

- Bonds are either secured or unsecure
- Secured bonds
- Backed by specific corporate assets
- Example: Mortgage bond
- Unsecured bonds
- Backed solely by the general credit of the corporation, rather than by specific assets
- Also called "debenture bonds"


## Timing of Payment of Principle

- Principal is to be paid at maturity
- Term bonds - Bonds that all have the same maturity date
- Serial bonds - Bonds issued in a series so that a specified amount of the bond matures each year


## Timing of Payment of Principle (cont.)

- Principal is to be paid at maturity
- Convertible bonds - Bonds that give the holder the option of exchanging the bonds for capital stock of the corporation
- Callable bonds - Bonds that give the issuing corporation the option of calling the bonds for redemption before the maturity date


## Identification of Ownership

## - Principal is to be paid at maturity

- Registered bonds
- Bonds whose ownership is recorded in the corporate records
- Name and address of each owner
- Coupon bonds (bearer bonds)
- Bonds whose ownership generally is not recorded by the corporation
- The holder of the bond presents the interest coupons for payment as they come due


## Comparison of Bonds with Common

 Stock- Bondholders
- Creditors of a corporation
- Life of bond limited (10-25 years)
- Stockholders
- Owners of a corporation
- Unlimited life


## Comparison of Bonds with Common Stock (cont.)

| Characteristic | Bonds | Common Stock |
| :--- | :--- | :--- |
| Holder | Creditor | $\begin{array}{l}\text { Shareholder with voice in } \\ \text { management }\end{array}$ |
| Life | Defined/limited | Unlimited—same as corporation |
| Financial statement |  |  |
| presentation |  |  |
| Payments | Liabilities—long-term debt | Stockholders' equity | Interest and principal required \(\left.\quad \begin{array}{l}No guarantee—dividends <br>

depend on corporate income <br>

and policies\end{array}\right]\)| If weak performance, can lower |
| :--- |
| stock price |

## Advantage of Bonds

- One advantage of using bonds is leverage:
- Using other people's money to enhance the company's earnings.
- Can be achieved by earning a greater rate of return with funds that were borrowed than the rate the company paid for those funds.
- Example: a corporation can issue bonds at 6\% interest, and use the funds to earn a rate of $15 \%$ : means strong positive leverage.


## Determining Sales Price

- EXAMPLE: Watkin Corp. wants to sell $\$ 400,000$ of $8 \%, 10$-year bonds.
- Two factors affect price:
- Stated or coupon rate of interest on the bond
- Current market rate of interest on similar investments


## What if the market rate is $9 \%$ ?

## Determining Sales Price (cont.)

- EXAMPLE: Watkin Corp. wants to sell $\$ 400,000$ of $8 \%, 10$-year bonds.
- Two factors affect price:
- Stated or coupon rate of interest on the bond
- Current market rate of interest on similar investments

> If our bonds offer only $8 \%$ and other bonds are offering $9 \%$, investors will not want our bonds.

## Determining Sales Price

- EXAMPLE: Watkin Corp. wants to sell $\$ 400,000$ of $8 \%, 10$-year bonds.
- Two factors affect price:
- Stated or coupon rate of interest on the bond is $8 \%$
- Current market rate of interest on similar investments is 9\%


## Our bonds will sell at a discount

## Determining Sales Price

- EXAMPLE: Watkin Corp. wants to sell $\$ 400,000$ of $8 \%, 10$-year bonds.
- Two factors affect price:
- Stated or coupon rate of interest on the bond is $8 \%$
- Current market rate of interest on similar investments is 7\%


## If the market rate is only 7\%, the bonds will sell at a premium.

## Determining Sales Price

## - EXAMPLE: Watkin Corp. wants to sell $\$ 400,000$ of $8 \%, 10$-year bonds.

## When... <br> The Selling Price...

Stated Rate = Market Rate, = Face Value
Stated Rate > Market Rate, > Face Value (Premium)

Stated Rate < Market Rate, < Face Value (Discount)

## Learning Objective

## Account for bonds issued at face value.

## Issuing Bonds at Face Value

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is THE SAME as the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10-year bonds at face value.

> Let's look at the issuance journal entry.

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## Issuing Bonds at Face Value (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is THE SAME as the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10-year bonds at face value.


## Interest Payment:

## Face Value $\times$ Stated Interest Rate

 $\$ 400,000 \times 8 \%$
## \$32,000/Year

Since interest payments are paid every 6 months, $1 / 2$ of the yearly interest is included with each payment.

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## GENERAL JOURNAL

|  | DATE |  | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\begin{aligned} & 20-1 \\ & \text { Dec. } \end{aligned}$ | 31 | Bond Interest Expense |  | 8,000 |  |
| 2 |  |  | Bond Interest Payable |  |  | 8,000 |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
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|  | DATE |  | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Jan. | 1 | Bond Interest Payable |  | 8,000 |  |
| 2 |  |  | Bond Interest Expense |  |  | 8,000 |
| 3 |  |  |  |  |  |  |
| $\frac{4}{5}$ |  | The adjustment is reversed on January 1. |  |  |  |  |
| 7 |  |  |  |  |  |  |
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## Learning Objective

## Account for bonds issued at a premium.

## Issuing Bonds at a Premium

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is GREATER than the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10-year bonds at 106 .

\$400,000 $\times 106 \%$<br>Bonds will sell for $\mathbf{\$ 4 2 4 , 0 0 0}$

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## Balance Sheet [Partial]

## Long-term liabilities:

## Bonds payable Premium on bonds payable

## Bonds Payable + Premium = Carrying Value

## Issuing Bonds at a Premium (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is GREATER than the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10 -year bonds at 106 .
$\$ 400,000 \times 8 \% \times 1 / 2=\$ 16,000$ interest payment


## Selling at a premium does not affect the amount of the interest payments.

## Issuing Bonds at a Premium (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is GREATER than the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10-year bonds at 106 .
$\$ 400,000 \times 8 \% \times 1 / 2=\$ 16,000$ interest payment


## This is not the interest expense recognized every 6 months.

## Issuing Bonds at a Premium (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is GREATER than the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10 -year bonds at 106 .
$\$ 400,000 \times 8 \% \times 1 / 2=\$ 16,000$ interest payment The $\$ 24,000$ premium received reduces the amount of interest expense.

The premium is amortized over the life of the bond.

## Amortizing Bond Premiums

- Two methods of amortizing premiums or discounts:
- Effective interest
- Recommended method
- Covered in the Appendix
- Straight line
- Simple to apply
- Generally provides acceptable results


## Amortizing Bond Premiums (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is GREATER than the current market rate. Watkin Corp. will sell the $\$ 400,000$, 10-year bonds at 106 .


## FORMULA:

## Premium Life of Bonds <br> $\times \quad 1 / 2$ Year

$$
\times \quad 1 / 2 \text { Year }=\$ 1,200
$$

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$\left.\begin{array}{l||c|c|c|r|l}\hline \hline & \text { DATE } & \text { DESCRIPTION } & \text { PR } & \text { DEBIT } & \text { CREDIT } \\ \hline 1 & \text { 200-1. } & \text { Oct. } & \text { Bond Interest Expense } & & \mathbf{1 4 , 8 0 0}\end{array}\right]$

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$\left.\begin{array}{l||c|c|c|c|c|c}\hline \hline & \text { DATE } & \text { DESCRIPTION } & \text { PR } & \text { DEBIT } & \text { CREDIT } \\ \hline 1 & \text { 20-2 } & \text { Jan. } & \text { 1 } & \text { Bond Interest Payable } & & \mathbf{8 , 0 0 0}\end{array}\right]$

## PREMIUM AMORTIZATION

| Date | Interest <br> Expense <br> Debit | Premium <br> on Bonds <br> Payable | Bonds <br> Cash <br> Credit | Premium on <br> Payable <br> Balance | Carrying <br> Bonds Payable <br> Balance | Value of <br> Bonds |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| $4 / 1 /-1$ |  |  | $\$ 400,000$ | $\$ 24,000$ | $\$ 424,000$ |  |

## PREMIUM AMORTIZATION



## PREMIUM AMORTIZATION

| Date | Interest <br> Expense <br> Debit | Premium <br> on Bonds <br> Payable | Bonds <br> Cash <br> Credit | Premium on <br> Payable <br> Balance | Carrying <br> Bonds Payable <br> Balance | Value of <br> Bonds |
| :---: | :---: | :---: | :---: | ---: | ---: | ---: |
| $4 / 1 /-1$ |  |  | $\$ 400,000$ | $\$ 24,000$ | $\$ 424,000$ |  |
| $10 / 1 /-1$ | $\$ 14,800$ | $\$ 1,200$ | $\$ 16,000$ | 400,000 | 22,800 | 422,800 |

## PREMIUM AMORTIZATION

| Date | Interest Expense Debit | Premium on Bonds Payable | Cash <br> Credit | Bonds Payable Balance | Premium on Bonds Payable Balance | Carrying <br> Value of <br> Bonds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/1/-1 |  |  |  | \$400,000 | \$24,000 | \$424,000 |
| 10/1/-1 | \$14,800 | \$1,200 | \$16,000 | 400,000 | 22,800 | 422,800 |
| 4/1/-2 | 14,800 | 1,200 | 16,000 | 400,000 | 21,600 | 421,600 |
| 10/1/-2 | 14,800 | 1,200 | 16,000 | 400,000 | 20,400 | 420,400 |
| 4. By the maturity date of the bond, the premium is gone and the carrying value has reached the face value of the bond. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  | 1,200 | 401,200 |
|  |  |  |  |  | 0 | 400,000 |

## Learning Objective <br> 4

## Issuing Bonds at a Discount

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is LESS than the current market rate. Watkin Corp. will sell the $\$ 400,000,10$-year bonds at 95 .

$\$ 400,000 \times 95 \%$<br>Bonds will sell for $\mathbf{\$ 3 8 0 , 0 0 0}$

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## Balance Sheet [Partial]

## Long-term liabilities: Bonds payable $\$ 400,000$ Discount bonds payable

## Bonds Payable - Discount = Carrying Value

## Issuing Bonds at a Discount (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is LESS than the current market rate. Watkin Corp. will sell the $\$ 400,000,10$-year bonds at 95 .
$\$ 400,000 \times 8 \% \times 1 / 2$

Interest payments of $\$ 20,000$ every 6 months

## Selling bonds at a discount does not affect the amount of interest paid.

## Issuing Bonds at a Discount (cont.)

- EXAMPLE: On April 1, 20-1, the stated rate of $8 \%$ is LESS than the current market rate. Watkin Corp. will sell the $\$ 400,000,10$-year bonds at 95 .


## $\$ 20,000$ discount will be amortized over the life of the bond.

## $\frac{\$ 20,000}{10 \text { years }}$ <br> $$
\times \quad 1 / 2=\$ 1,000
$$

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## GENERAL JOURNAL

|  | DATE |  | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\begin{aligned} & 20-1 \\ & \text { Dec. } \end{aligned}$ | 31 | Bond Interest Expense |  | 8,500 |  |
| 2 |  |  | Bond Interest Payable |  |  | 8,000 |
| 3 |  |  | Discount on Bond Payable |  |  | 500 |
| 4 |  |  |  |  |  |  |
| 5 6 |  |  | At year end, three months of accrued interest expense and discount amortization are recognized. |  |  |  |
| 7 |  |  |  |  |  |  |
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## DISCOUNT AMORTIZATION

| Date | Interest <br> Expense <br> Debit | Discount <br> on Bonds <br> Payable | Bonds <br> Cash <br> Credit | Discount on <br> Payable <br> Balance | Carrying <br> Bonds Payable <br> Balance | Value of <br> Bonds |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: |
| $4 / 1 /-1$ |  |  | $\$ 400,000$ | $\$ 20,000$ | $\$ 380,000$ |  |
| $10 / 1 /-1$ | $\$ 17,000$ | $\$ 1,000$ | $\$ 16,000$ | 400,000 | 19,000 | 381,000 |

## DISCOUNT AMORTIZATION



## Learning Objective

## Account for bond redemption and bond sinking funds.

## Bond Redemption

- Corporations may redeem bonds:
- At the maturity date
- By paying the face value of the note
- Before maturity
- By paying the call price if "callable"
- By paying the market price if not callable
- Usually results in a gain or a loss from the difference between the amount paid to redeem the bonds and the carrying value of the bonds


## Bond Redemption (cont.)

- EXAMPLE: Watkin Corp. redeems \$40,000 of the $\$ 400,000$ of 10 -year bonds that were sold at face value. The $\$ 40,000$ of bonds were redeemed at 103.

$$
\$ 40,000 \times 103 \%=\$ 41,200
$$

Watkin will pay $\$ 41,200$ to redeem $\$ 40,000$ of bonds-
a \$1,200 loss.

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## Bond Redemption (cont.)

- To determine if there is a gain or loss, we must compare the carrying value at the time of redemption with the amount paid to redeem the bonds.

Carrying Value $=$
Face Value + Unamortized Premium
\$40,000 $+$

We must determine how much of the premium remains unamortized at the date of redemption (8 years later).

## Unamortized Premium

## - Bonds were originally sold $\mathrm{a} \$ 42,400$

$$
\$ 40,000 \times 106 \%
$$

## Unamortized Premium (cont.)

## Bonds were Face value Premium Amortized over

 originally sold at $\quad \$ 42,400$- 40,000
\$ 2,400
$\div \quad 10$ years
\$ 240 per year
8 years
\$ 1,920
\$2,400 premium - \$1,920 amortized so far $=\$ 480$ remaining unamortized premium


## Bond Redemption (cont.)

- To determine if there is a gain or loss, we must compare the carrying value at the time of redemption with the amount paid to redeem the bonds.
Carrying Value $=$
Face Value + Unamortized Premium $\$ 40,000+\quad \$ 480$

Carrying value of \$40,480 Cash paid to redeem the bonds of $\$ 41,200(\$ 40,000 \times 103 \%)=\$ 720$ loss

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|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :--- | :--- | :--- | ---: | ---: | ---: |
| 1 |  | Bonds Payable |  | $\mathbf{4 0 , 0 0 0}$ |  |
| 2 |  | Premium on Bonds Payable |  | $\mathbf{4 8 0}$ |  |
| 3 |  | Loss on Bonds Redeemed |  | $\mathbf{7 2 0}$ |  |
| 4 |  | Cash |  |  | $\mathbf{4 1 , 2 0 0}$ |
| 5 |  |  |  |  |  |
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| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

## Bond Redemption (cont.)

- EXAMPLE: Watkin Corp. redeems \$40,000 of the $\$ 400,000$ of bonds that were sold at face value. The $\$ 40,000$ of bonds were redeemed at 97 .
$\$ 40,000 \times 97 \%=\$ 38,800$
Watkin will pay $\$ 38,800$ to redeem \$40,000 of bondsa $\$ 1,200$ gain.


## GENERAL JOURNAL

|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Bonds Payable |  | 40,000 |  |
| 2 |  | Gain on Bonds Redeemed |  |  | 1,200 |
| 3 |  | Cash |  |  | 38,800 |
| 4 |  |  |  |  |  |
| 5 |  | What if these bonds had originally been sold at 95 (discount)? |  |  |  |
| 6 |  |  |  |  |  |
| 8 |  |  |  |  |  |
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| 10 |  |  |  |  |  |
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## Bond Redemption (cont.)

- To determine if there is a gain or loss, we must compare the carrying value at the time of redemption with the amount paid to redeem the bonds.
Carrying Value $=$
Face Value - Unamortized Discount


## \$40,000

We need to determine how much of the discount remains unamortized at the time of redemption, 7 years later.

## Unamortized Discount

## - Bonds were originally sold at $\$ 38,000$

## \$40,000 × 95\%

## Unamortized Discount (cont.)

## Bonds were originally sold at $\quad \$ 38,000$ <br> Face value <br> - 40,000 <br> Premium <br> \$ 2,000 <br> Amortized over <br> $\div \quad 10$ years <br> \$ 200 per year <br> 7 years <br> Amortized so far <br> \$ 1,400

\$1,600 discount - \$1,400 amortized so far = \$600 remaining unamortized

## Bond Redemption (cont.)

- To determine if there is a gain or loss, we must compare the carrying value at the time of redemption with the amount paid to redeem the bonds.
Carrying Value =
Face Value - Unamortized Discount
\$40,000 - \$600
Carrying value of \$39,400 Cash paid to redeem the bonds of $\$ 39,200(\$ 40,000 \times 98 \%)=\$ 200$ gain


## GENERAL JOURNAL

|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Bonds Payable |  | $\mathbf{4 0 , 0 0 0}$ |  |
| 2 |  | Discount on Bonds Payable |  |  | $\mathbf{6 0 0}$ |
| 3 |  |  | Gain on Bonds Redeemed |  |  |
| 4 |  | Cash |  |  | $\mathbf{2 0 0}$ |
| 5 |  |  |  |  | $\mathbf{3 9 , 2 0 0}$ |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

## Bond Sinking Funds

- A formal, written agreement for issuing bonds is a bond indenture
- Often requires a bond sinking fund
- The issuer is to accumulate and invest funds over
a period of years to provide the amount needed at maturity


## Bond Sinking Funds (cont.)

- EXAMPLE: Watkin Corp. is required to make deposits of \$30,000 to a trustee each year.


## Let's look at the journal entry.

## GENERAL JOURNAL



## GENERAL JOURNAL

|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Bonds Sinking Fund |  | 30,000 |  |
| 2 |  | Cash |  |  | 30,000 |
| 3 |  |  |  |  |  |
| 4 |  | Bonds Sinking Fund |  | 2,800 |  |
| 5 |  | Sinking Fund Earmings |  |  | 2,800 |
| 6 |  |  |  |  |  |
| 7 | Watkin bonds are redeemed at maturity by the trustee. |  |  |  |  |
| 9 |  |  |  |  |  |
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|  | Leaning Alf |  |  |  |  |

## GENERAL JOURNAL

|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Bonds Sinking Fund |  | 30,000 |  |
| 2 |  | Cash |  |  | 30,000 |
| 3 |  |  |  |  |  |
| 4 |  | Bonds Sinking Fund |  | 2,800 |  |
| 5 |  | Sinking Fund Earnings |  |  | 2,800 |
| 6 |  |  |  |  |  |
| 7 |  | Bonds Payable |  | 400,000 |  |
| 8 |  | Bond Sinking Fund |  |  | 400,000 |
| $\frac{9}{10}$ |  | \$960 is remaining in the sinking fund after the bonds are redeemed. |  |  |  |

## GENERAL JOURNAL

|  | DATE | DESCRIPTION | PR | DEBIT | CREDIT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Bonds Sinking Fund |  | 30,000 |  |
| 2 |  | Cash |  |  | 30,000 |
| 3 |  |  |  |  |  |
| 4 |  | Bonds Sinking Fund |  | 2,800 |  |
| 5 |  | Sinking Fund Earnings |  |  | 2,800 |
| 6 |  |  |  |  |  |
| 7 |  | Bonds Payable |  | 400,000 |  |
| 8 |  | Bond Sinking Fund |  |  | 400,000 |
| 9 |  |  |  |  |  |
| 10 |  | Cash |  | 960 |  |
| 11 |  | Bond Sinking Fund |  |  | 960 |

