

| Speed. | Horse Power. | Efficiency. |
|--------|--------------|-------------|
| 252 | .79 | 50.7 |
| 322 | .76 | 48.5 |
| 398 | .93 | 59.1 |
| 400 | .86 | 57.0 |
| 407 | .84 | 53.5 |
| 438 | .87 | 56.7 |
| 450 | .94 | 59.9 |
| 497 | .96 | 62.8 |
| 506 | .94 | 60.4 |
| 545 | .95 | 60.6 |
| 551 | .95 | 61.0 |
| 565 | .84 | 55.7 |
| 585 | .76 | 47.3 |
| 588 | .83 | 52.6 |
| 625 | .91 | 55.7 |
| 638 | .91 | 58.3 |
| 665 | .83 | 52.2 |

(b) Pressure 75 lbs. per sq. inch. Equivalent head = 175 feet. Discharge = 53 gallons per minute.

| Speed. | Horse Power. | Efficiency. |
|--------|--------------|-------------|
| 345 | 1.38 | 49.8 |
| 409 | 1.52 | 54.9 |
| 477 | 1.68 | 60.7 |
| 523 | 1.68 | 61.4 |
| 582 | 1.80 | 64.7 |
| 594 | 1.79 | 65.8 |
| 632 | 1.75 | 64.4 |
| 632 | 1.76 | 63.1 |
| 672 | 1.78 | 64.1 |
| 677 | 1.56 | 55.3 |
| 725 | 1.63 | 58.3 |
| 726 | 1.65 | 59.6 |
| 737 | 1.61 | 59.7 |
| 768 | 1.55 | 55.1 |
| 770 | 1.57 | 57.0 |
| 847 | 1.40 | 51.2 |
| 879 | 1.31 | 47.7 |

(c) Pressure 100 lbs. per sq. inch. Equivalent head = 235 feet. Discharge = 63 gallons per minute.

| Speed. | Horse Power. | Efficiency. |
|--------|--------------|-------------|
| 276 | 1.70 | 37.9 |
| 306 | 1.85 | 41.2 |
| 345 | 1.98 | 44.4 |
| 387 | 1.90 | 44.5 |
| 459 | 2.22 | 49.7 |
| 470 | 2.36 | 52.8 |
| 541 | 2.52 | 56.0 |
| 605 | 2.67 | 60.0 |
| 644 | 2.80 | 63.2 |
| 698 | 2.76 | 64.0 |
| 760 | 2.96 | 65.0 |
| 834 | 2.65 | 59.5 |
| 858 | 2.78 | 61.8 |
| 914 | 2.76 | 58.6 |
| 939 | 2.76 | 57.9 |

(d) Pressure = 125 lbs. per sq. inch. Equivalent head = 290 feet. Discharge = 70 gallons per minute.

| Speed. | Horse Power. | Efficiency. |
|--------|--------------|-------------|
| 494 | 3.25 | 52.0 |
| 536 | 3.32 | 53.6 |
| 592 | 3.50 | 57.5 |
| 664 | 3.79 | 62.1 |
| 702 | 3.83 | 63.3 |
| 765 | 4.00 | 65.2 |
| 813 | 3.89 | 62.8 |
| 867 | 3.93 | 64.8 |
| 918 | 3.95 | 64.0 |

(Continued in next issue.)

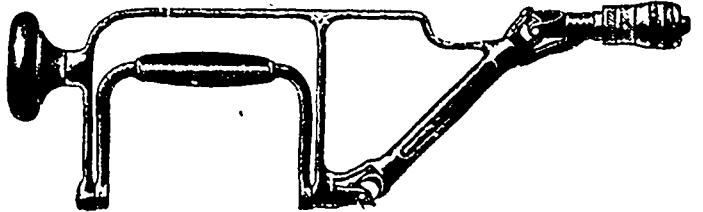
The Geo. White & Sons Co., Ltd., manufacturers of agricultural implements, London, Ont., have completed the new building, 175 x 35 ft., in which it is intended to manufacture threshing machines under rights bought recently from McPherson & Co., Fingal, Ont.

The Hamilton Facing Mill Co. have been running overtime for some months past, and have not been so busy for years as they are now.

The Garlock Packing Co., of Hamilton, have had a very busy season. Among the specialties this company is turning out is a high-grade asbestos covering which is meeting with wonderful success all over the country. The Garlock Packing Co. have won the confidence of engineers and steam users, and this no doubt is one reason why their new line of goods has come into favor so quickly.

THE UNIVERSAL BRACE.

The universal brace needs but little explanation with the practical mechanic, whether he be electrician, plumber, or carpenter; it is rapidly crowding out of the market the old-fashioned and clumsy angle brace, so long the only article of



its kind obtainable. The tool is usually supplied with a bar grip handle, which is specially adapted for overhead and horizontal work. The Aikenhead Hardware Co., 6 Adelaide St., East, Toronto, will be pleased to answer all enquiries as to price, etc., of this very necessary article.

Arc Light Electric Plant

Tenders for Dynamos, Lamps, Poles, Wiring

and all necessary electrical plant for the full equipment of a 350 2,000 c p. electric arc light plant, together with all the necessary engines, boilers, &c., required for the steam plant to operate same, will be received at this office up to WEDNESDAY, AUGUST 3rd, 1898, where specifications and form of tender may be obtained.

ORMSBY GRAYDON, City Engineer,

London, Canada.

SAMUEL STEVELEY,

Acting Chairman No. 3 Com.

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Owing to the excellent reputation which our "Star Brand" of Portland Cement has acquired, and which trade mark is protected by Government registration at Ottawa, foreign manufacturers have been sending cements into Canada under the name of "Star," which we believe to be inferior in quality, weight per barrel, etc., to our goods, hence to insure the use of the genuine article, we respectfully suggest that in framing specifications you be careful to see that Rathbun's "Star Brand" is specified and used. We guarantee it.

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Sizes 3 in. and 2 1/2 x 2 1/2 in. 350 gals. per hour.

With or Without Hand Levers. At Low Prices.

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