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HARD AND SOFT WOOD. If you want the Driest, Cheapest and Best Hard Maple and Beach Cordwood, Oak, Birch Ash, Elm or Hemlock Cordwood Sawed or Un

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BRISCO HOUSE, NAPANEE, ONTARIO

C. A. GORNELL . PROP. This House has just been re-modelied, and refitted, and no pains will be spared to secure the comfort of Guests. Commodious Sample Rooms for Commercial The best yard and stables in town.

HEINTEMAN & STEINWAY PIANOS. The Best is Eventually the

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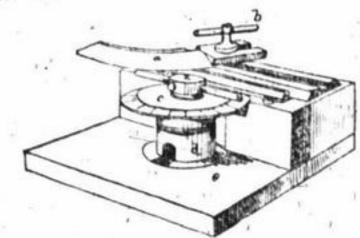
Cheapest, TERMS TO SUIT PURCHASERS. The latest music, songs, folios, piano methods, &c., at Sherlock's Piano Rooms, 28! Princess Street.

SCIENCE AND PROGRESS.

SUBJECTS OF INTEREST TO PRO-GRESSIVE MEN AND WOMEN.

A Diagram and Description of Dr. Taylor's Unpatented, but New, Improved Freezing Microtome, Adapted to Three Methods of Section Cutting.

Dr. Thomas Taylor, of the agricultural de partment, who several years ago invented a microtome, gave the first public exhibition of a new microtome recently at a meeting of the Microscopical society of Washington. The following diagram and description from Science will show the advantages claimed for it. It may also be added that it is simpler and can be manufactured at much less cost than the microtomes now generally in use; and, as those persons employed by the government are not allowed to patent inventions made in the line of the work they are engaged in, any microscopist in the country may make and use the instrument here described. '



A NEW IMPROVED MICROTOME. In the above cut a represents a curved knife, adjustable at any angle; b, binding serew; c, graduated disk, which revolves on stand (d) by means of a finely cut screw thread; e, mahogany stand upon which the instrument is secured.

A cork with a central opening is fitted into a descending tube (one inch deep by one and a half inches in diameter) in the center of disk (c). Cork and tube revolve with the disk. In the central opening is fitted an ordinary stopper or cork, on top of which the object to be shaved may be secured by paraffine or

In order to freeze objects, remove the central cork, and insert the hollow metal box (x), a prolongation of which fits into the hollow cork in disk (c). Two tubes of metal project from the freezing box-one to admit water, the other to allow it to flow out. The water is supplied and carried off by means of rubber tubing attached to the metal tubes, the terminal end of the rubber tube which carries off the water being contracted to control the flow.

In the use of ether as a means of freezing objects for the cutter, remove the plug in front of the freezing box and detach the rubber tubing. Apply ether in the usual manner.

Steam Detrimental to Sewers. One point that was made in the late report of the commissioner of public works of New York was of special interest, says The Scien-

title American. The evil effects of steam discharged from engine exhaust pipes was emphasized. The suggestions in the report were principally due to Mr. Rudolph Heriag. Touching this question of steam, he proposed the use of intercepting traps or cooling basins, or else the discharge of all such steam into the air from pipes reaching above the roofs of the houses.

The admission of steam to sewers not only favors the production of sewer gas, but destroys the material of the sewers. Iron pipe lines, especially at the joints, become seriously weakened; tile pipes lose their hard, ringing character, and crumble away under rapid disintegration. In brick sewers the cement is attacked, and the arch soon becomes little better than a cementless structure. The recent leaks in the pipes of the Steam Heating company in New York have produced similar troubles and serious annoyances through the streets in which the steam is conducted. The insulation of underground electric lines has been seriously affected, and all who travel upon Broadway can testify to the disagreeable odors produced. It seems clear that the distribution and use of steam should be attended with more restrictions on the part of municipal authorities than now apply

Preparation of Fruit Strups.

Everybody knows, says M. Mancho in Archives de l'harmacie, that sirups prepared from fresh fruit juices are far preferable to any others, but that these sirups in their fresh state contain a large amount of carbonic acid is usually forgotten. When the process usually in vogue is followed, and sugar is added to the juices in the cold, a liquid is obtained which soon becomes so dense that the acid finds it difficult to make its escape when heat is subsequently applied, and the consequence is foaming, and sometimes a partial caramelizing of the sugar, from the fact that the sirup makes a denser layer at the bottom while the lighter juice is forming on top. To avoid all this, M. Manche recommends that the juice be boiled before any sugar is added, replacing loss from evaporation by distilled water. The result is said to be better in every way.

Coal Oil and Natural Gas.

It is only fourteen years ago that natural gas was first used as a fuel, yet today, according to a St. Louis exchange, there is required to pipe it 27,350 miles of mains. In Pittsburg alone 500 miles supply 42,698 private houses, 40 iron mills, 37 glassworks, 83 foundries and machine shops, and 422 miscellaneous industrial establishments. An idea of its value as fuel can best be obtained when the value of 7,000,000 tons of coal is estimated, as it is asserted that this amount of coal is annually displaced by natural gas.

The Air Pencil. A simple and effective contrivance, patented under the name of "air pencil," is attracting the attention of English artists, and, it is claimed, is useful to form ornamental relief work of every description upon card board, wood, metal, china, silk and any other woven material. The instrument consists of a rubber bulb with a metal nozzle, as shown in the illustration.



THE AIR PENCIL AT WORK The bulb is filled with a semi-liquid paste, which flows out under pressure of the left hand, while the right hand guides the pencil. Thus any kind of raised lettering and ornamental scroll work can be produced, firmly adhering to the underlying material. At the season just passed the little instrument proved especially acceptable for the lettering of Christmas texts and similar decorations. The paste letters can afterwards be either painted in oil colors or coated with metallic powders, both methods producing a very good effect.

PLUCKY CASSIE WATKINS.

She Has a Fine Ranch in Colorado and Runs It Herself.

There is a girl in Colorado, who, now that her career is becoming known, will doubtless be the recipient of offers of marriage from all parts of the country. More indomitable pluck is seldom if ever shown by any man than has been displayed by this girl. If ever a woman deserved prosperity she is Miss Cassie Watkins, the "girl ranchman" of "Watkins Glen," Colo.

Miss Watkins lived at Detroit. Being of an independent disposition and thinking Horace Greeley's advice, "Go west, young man," applied to young women as well, she packed up her traps one day and started for Colorado. On arriving at Denver she presented herself for the annual competitive examination for teacher in the public schools and passed so triumphantly that she was was offered the first position. Soon after the president of the National Education association made her his secretary.

After passing her examination, Miss Watkins went to a spot some twelve miles from Colorado Springs and entered 320 acres of government land. She needed \$20 to enable her to take out her first papers, but hadn't a cent. While she was deliberating how to "raise the wind" she got news that her services had been accepted by the school board in Denver. As soon as she received the required sum from her salary she took out her papers, built a cabin which cost her \$25, put the shingles on the roof herself, and in doing so experienced a fall which very nearly cost her her life. She was on duty at Denver and could only spend Sundays and holidays at her ranch. But these days always found her there living alone, making her improvements and separated by more than a mile from her nearest neighbor. In 1886 Miss Watkins put a barbed wire



CASSIE WATEINS AND MER RANCH often that the expense ran up to \$200, and, being badly built, proved a failure after all. The girl also concluded to put in a crop of alfalfa, but as her dam proved a failure she had no irrigation and her crop was lost.

The indomitable woman, however, paid no more attention to misfortunes than if they were April showers, and went on building another room to her cabin and a barn. The barn was hardly as big as a Chicago elevator -indeed, it was only 12 by 12 feet-but it was plenty big enough for her alfalfa crop, which she didn't gather, and was especially noticeable as a monument of pluck. Then she built "Watkins ditch," which led from Rock Creek to her alfalfa land.

When she came to make her final papers on her claim, and payment for her land to the government of \$1.35 per acre, she had more trouble. The register at Pueblo found fault with her cabin, declared that other hands than hers had plowed her land, and declined to make the papers. But the plucky girl wrote to the land commissioner at Washington, and the register's decision was reversed and Miss Watkins got her claim.

Miss Watkins then erected a new cabin. She entertains her friends on her ranch in summer, her place, which is called "Watkins Glen," being picturesque and admirably adapted for a country place. Since she entered her land three railroads have centered at Fountain City, three miles away, and her property is now valued at \$3,000.

It may be supposed that the woman who has accomplished so much in such a daring fashion is made of coarse, bardy fabric. This is not the case. She is a high bred city girl, raised in that aristocratic city of Detroit, tall, dashing and stylish, straight and lithe, and withal a superb horsewoman. As she rides over her broad acres she looks for all the world a "Lady Gay Spanker," or that other enthusiastic and real, horsewoman, the empress of Austria.

TOM MERRITT OF ILLINOIS.

He Has Introduced a Bill in the Legislature for the Suppression of Trusts.

Tom Merritt, of Marion county, Illinois, has a bill for the suppression of trusts in that state, before the Illinois legislature, that is likely to produce a bitter fight this winter. It is called the Merritt conspiracy law. Tom Merritt, as he is familiarly called by all who know him, and many who do not, is a character. He has an impediment in his speech that renders some of his remarks particularly funny. He once consulted a physician as to whether he could cure him of his habit of stuttering. "I would not do it," said the doctor, "for then you would loose your chief stock in trade." "I h-ha-hadn't thought of th-tha-that," said Tom, as he sadly walked

On one occasion Merritt's stuttering served TOM MERRITT.

him in destroying the influence of a young and ambitious member of the Illinois legislature. The new member, who was an eloquent and powerful speaker, was ambitious to supplant Tom Merritt as leader of the members of the house from southern Illinois, a district commonly called Egypt.

The young man introduced a bill which was very important to the Egyptians. There was a good deal of opposition, and the would be leader of his colleagues was entremely anxious to secure the passage of the bill in face of this opposition. When he rose to speak he at once enlisted the closest attention, and it could be seen that he was winning friends for his measure. Tom Merritt was among those who took deep interest in the speech. With a good deal of consternation he saw the great progress his rival for the leadership was making. His mind was busy concecting some scheme to break the force of the speech. Finally he arose and addressed the chair. "Mr. S-s-peak-er," he said, "I wa-wa-want to ask the g-g-gen-t-tleman a q-q-question." By this time the attention of the house had been directed to the gentleman from Marion, and, turning to his rival, Tom continued: "D-d-does the g-g-gen-t-t-tle-man w-w-want this b-b-bill to p-p-pa-assi" "Of course I do," was the rejoinder. "Th-th-then for G-go-go-od's s-s-ake s-si-sit d-d-down!" stuttered Merritt, amid the roars of the members. And the gentleman did sit down. He was all broken up and could not conclude his speech. His bill was defeated, and was not heard of again that session.

CORSETS.

THIRTY DIFFERENT MAKES to CHOOSE FROM

CORSETS TO SUIT EVERYONE AT

MURRAY & TAYLOR'S.

We have just received 500 pairs direct from the manufacturers. Note our prices.

A Good Jean Corset 20c and 25c. A Fine Jean Corset for 35c and 45c. The M. & T., extra heavy, 50c. The M. & T., best year, 75c A 5 Clasped Corset for 85c. The M. & T Stayed End only \$1. A Fine Coutille Corset, new make, \$1.

Also all the leading makes, comprising Lily. Coraline 'A,' Coraline 'B,' Success, Spoon, Dr. Warner's Health, The B. & C., &c. Children's Corsets ank Waists. Every lady can be suited with corsets at

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WILL OFFER FOR THE BALANCE OF THIS MONTH

And All the month of February,

ALL CLASSES OF WOOLLEN GOODS,

Such as Clouds, Fascinators, Tuques, Hoods, Ulster Cloths, Heavy Cloakings, Sealette, Seal Plush and Winter Wool Goods at lower prices than ever offered here. Our annual sale of Grey and White Cottons is now going on.

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FANCY WINCEY TWEEDS ONLY 5c per yd.

AT SPENCE & CRUMLEY'S.

300 RENMNANTS of DRESS GOODS from 2 1-2 to 16 yards in the piece all to be cleared before the 1st of February Regardless of Cost.

See our Striped Dress Goods at 7c per yard. 15 yards Heavy Melton \$1. Children's Heavy Wool Hose from 5c. per pair.

Women's Heavy Wool Hose only 15c.

The Biggest Bargains You Ever Saw All This Week at

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FOR THIS WEEK ONLY !

WE WILL SELL AT WHOLESALE COST Hosiery, Gloves, Fascinators, Clouds and Shawls, Ladies' and Gent's Underwear,

Wool Blankets, etc.

Watch this space for startling announcements.

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THE GREAT CARPET SALE

RICHMOND, ORR & CO. LASTS TILL THE END OF JANUARY.

Buy your Carpets now and save money. Remember that Carpets are being sold at this sale at cost price by RICHMOND, ORR & CO.

NEW STYLE OF BOOTS.

The ADJUSTABLE LACED KID BOOT, price \$2.50, is the newest and neatest style of walking boot for ladies yet Made. Sold only at

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Kingston, Belleville and Trenton.

FANCY FURNITURE.

Fancy Walnut Cabinets, Bevel Plate Mirror, \$25 to \$40. Ladies' Work Baskets, \$2.50 to \$6.50. Gentlemen's Fancy Rattan Arm Chairs, \$5.50 to \$12. Gentlemen's Fancy Rattan Rocker, \$6.50 to \$10. Fancy Rattan Reception Chairs, \$1 75 to \$10. Platform Carpet and Plush Rocker, \$5 to \$18. Marble Top Hall Stand, \$12.50 to \$25. Marble Top Bedroom Set, \$40 to \$125. Ladies' Fancy Desk, etc., \$12 to \$18.

Music Racks, Fancy Tables, Wood and Marble Top, \$2.50 to \$25 ... Do not fail to examine the stock before purchasing elsewhere.

JAMES REID, 254 and 256 Princess Street.