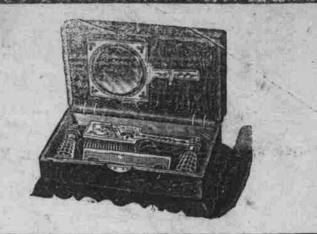
THE DAILY ASTORIAN ASTORIA, SUNDAY MORNING DECEMBER 2, 1894.

GRIFFIN REED.



For Him.

Smokers Sets. Collar and Cuff Boxes. Shaving Sets, Traveling Cases, Razor Cases, Cigar Cases, all styles, Fine Cutlery, Pocket Diaries, Pocket Books, Bill Books, Violins, Gnitars, Banjos, Dictionaries, Gold Pens, Fine Etchings. Fancy Inkstands.

Christmas, three weeks from next Tuesday!

Probably no nation under the sun is so literal about giving when Christmas time comes as those living in America.

It seems to be a time when the rich unloose their purse strings, and the poor give what they can.

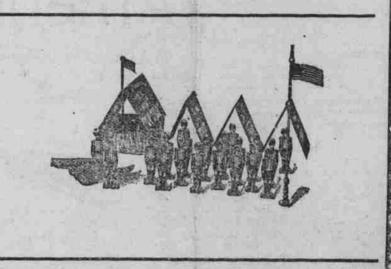
The question is not shall I give? but what shall I give? Just imagine how many Griffin & Reed had to think for when selecting their stock. We've told you how far we went fot some of the Holiday Goods under our roof, yet there are plenty of nice things for Christmas that we didn't have to cross the ocean for. But no odds where they come from, you will easily find what you want and the price won't stand in the way.

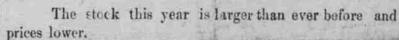
Just a thought nudge--a suggestion of perhaps one thing in a thousand of the store full that's ready

For the Children

Anything, everything-Jack knife to Bicycle. A whole store full of

BOOKS, DOLLS TOYS. GAMES, SPORTS and PLAYTHINGS and little nothings to warm young hearts.

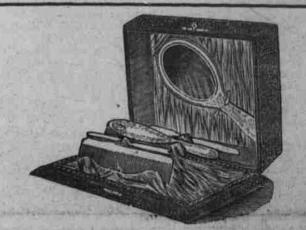






For Her.

Toilet Sets, Perfume Sets. Afternoon Tea Kettles. Work Boxes, Writing Desks, Portfolios, Photograph Albums. Autograph Albums, Music Rolls, Music Wraps, Book of Poems, Box of Fine Letter Paper, Fine Penhoiders, Fine Scissors, Manicure Sets, Jewel Cases, Scrap Books,





is the possibility which it affords of drawing water for fire purposes di- including developing a considerable water power at the gate house of the reservoir, gines, and if a fire should occur at such entire cost of the power-pump and (Continued from Fifth Page) (Continued from Fifth Page) of the next higher level, and is appar-ently a feasible device, and very in-ently a feasible device, and very in-

7,204.00 28,545.00 11,843.00 width.

ouired, and make his bid by

genious. The Reservoir— The location of the reservoir site, which has been selected for the termi-nus of the conduit, at an elevation of the genious and an excellent and weil drifted are de-po feet is available for power. This fall partment, consisting of three engine with 4,000,000 gailons per day would companies and a hook and lad-ing system is probably uncalled for at process it is only necessarily to so ar-runge the connections of the Pelton which averages nearly \$13,000 per annum, the city is really handi-tion of the machinery. hus of the conduct, at an excellent power, available for electric lighting, capped for lack of abundant water Tunnel. one, and the soil, as shown by the or for pumping to higher levels, say to supply available for hydrants, placed one, and the soil, as shown by the brings made on the site, is of a char-acter easily excavated, and readily packed and consolidated by rolling into and consolidated by rolling into a secure and solid embankment around the reservoir. Its location on a knott with low ground on three sides appar-ently insures it against the appearance of springs in the reservoir excavation. The borings show no rock nearer than five feet below the bottom of the reservoir case difficiency of a subject to all power and find the second to any other purpose. The reservoir the reservoir as designed by Mr. Adams appears to fit the ground as well as it could be made, and is about the right capacity, without being that it is he made as ranging to construction in the same will be ample. The cost of the about the right capacity, without being that the reservoir security rect. I pelton Water Wheel, complete excessively large or costly. I suggest be approximately as follows:

that it be made as nearly rect- I Pelton Water Wheel, complete angular in form as possible, because of the greater case and certainty with which the slopes can be dressed to true surface and line. I have also recommended to your engineer a modification of the plan of gineer a modification of the plan of gate house, and connections which will enable the water to be handled indeenable the water to be handled independently of the reservoir proper, al-

10,000 lbs, at 12 cents...... 300 60-ft. poles erected, at \$10.... 10 brackets for lamps, at \$5.....

lowing the reservoir to be cleaned without interrupting the flow in the conduit and distributing pipes, and admitting the possibility of omitting the reservoir entirely for a year or two, if for any reason & was deemed desirable to do so. The character of lining planned consists of Cant. a layer of concrete, 6 inches thick, covered with a course of brick laid flat ways in sement mortar, and coated with California asphalt, over the entire surface. This will make a water tight and satisfactory lining, I am sure, if properly applied. I think I should prefer, however, to use asphaltum for the plying a coat of asphalt to the conmethod described.

To reach the city distributive system

month......\$ 100 assistant...... 60 interest on cost of plant at 6 per

Total cost per month\$ 398.50 This is an average of \$6.65 per month. By take care of the remaining interest,

The city council could afford to pay and operating expenses and accumuthe water commission a rental of \$50.00 late a sinkping fund for the early reper annum per horse power, which is thement of the bonds.

a fair price for power elsewhere, and Pumping to Coxcomb Hill-

<text><text><text><text><text><text><text><text><text><text><text><text><text><text> cementing material for the bricks, ap- still keep the cost of illumination down' In connection with the development below \$10.00 per month per light, which of electric power for lighting purposes orete, then dipping the bricks into hot is two trirds of what I understand she it would be well to consider the que asphalt and laying them together on is now paying. The rental thus re- tion of utilizing the same power during the asphalt surface thus made, and af- ceived would pay one-fifth of the in- the day time for pumping to a future terwards coating the whole of the terest charges for the entire cost of the reservoir to be located on Coxcomb surface of the bricks with as- water works. Considered entirely apart Hill, from the end of the wood pip slope. Bricks can be made from as- possd water works seem to me to be perfectly feasible to establish a pump phaltum and sand which will be super- a most desirable investment for the at the power house, connect it with the see to any other for this purpose, and advantages to be derived from the Pelton wheel, and pump direct to Cox- Manholes cost no more. I suggest that the speci- cheap illumination of the city, and the comb Hill, but the pressure on the fications be so modified as to admit of superior protection afforded from fire, pump would be about 200 feet, and conacound bricks, and their laying in the The present water works are of no ser- sidering the cost of pipe, etc., it would

method described. Water Power-Our of the most interesting and val-make features of the proposed conduit The present water works are of the per- soluting the text of present the power electric it would because of the scanty water supply, and the utter lack of fire hydrants, tern a tibe end of the wood pipe. The method described.

and make this bid by the lineat foot for the pipe, completed, including the process used in the estimate are generally quite liberal, and the allow-ance made for cost of lumber, steel bands and shoes, hauling, steel pipe, control should also include all surved pipe, whether vertical or horisette, is certainly ample to cover rill probable cost, and contractors' profils and notes of survey, by the en-titems which seem to me to be reacted.