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quently filled with condensed steam, but
 this does not appear to affect it in the least.
 As a comparison to this there is a cotton
 rope of the same original size and doing prac-
 tically the same work, as it drives a counter-
 shaft, which only in its turn drives the
 paper rope. The cotton rope, therefore,
 only has to overcome the friction of the
 countershaft which is very small compared
 to the total resistance—in addition to the
 work done by the paper rope. It is how-
 ever, badly frayed and considerably nearer
 the end of its life than is the paper rope.

The third rope in actual work—that at the
 bolt and nut mill—had been in position but
 five or six weeks. It, however, looked as
 though it had only done as many hours'
 work, being scarcely marked and in no way
 worn. It forms one of five ropes transmit-
 ting the power of the engine to main shaft-
 ing, which drives all kinds of bolt and nut-
 making machinery, etc. Its length is some
 sixty-nine feet, the driving flywheel is ten
 feet in diameter, the grooved pulley on the
 shafting is five feet in diameter, the horse-
 power transmitted is estimated at twenty,
 and the rope travels at about 2,000 feet per
 minute. A greater stretch than has actually
 occurred was looked for, and the rope is
 therefore tighter than the remaining five,
 which are of cotton, and has consequently
 done more than its fair share of work. In
 all cases the cotton ropes with which the
 comparison were made were of Ironmongers'
 make, so that all element of desire to decry
 other makers' productions was absent.

The paper rope can be spliced in the same
 way as an ordinary rope, the splices being,
 however, of rather greater length than in the
 case of cotton ropes. The makers are just
 introducing a metal coupling for the ropes,
 which is intended to do away with splicing.
 They have one of these couplings at work,
 and we are informed that it is giving
 satisfaction.

NEW USE FOR WOOD PULP.

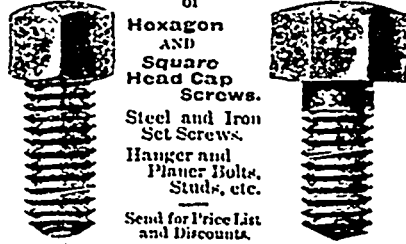
Frederick T. Gordon, a hospital steward
 at the League Island Navy Yard, has been
 for some time conducting experiments on
 the use of wood pulp in surgery, and he
 gives the results of his experiments in a re-
 cent number of The Medical Record. Wood
 pulp is obtained in its crude form
 from the manufacturers. It is cheap, easily
 obtained, and possesses valuable properties.
 When macerated in water, it swells up and
 absorbs from four to five times its weight
 of liquid, retaining it for a long time. As
 the pulp becomes soft, a poultice of any de-
 sired consistency can be made by varying
 the quantity of the water. By using hot
 water the resulting poultice will retain its
 heat and moisture much longer than a simi-
 lar poultice made of bread or flaxseed.

Of course, antiseptic drugs soluble in
 water may be dissolved in the water in
 which the pulp is to be soaked, as the pulp
 itself is unaffected by most drugs. When
 dry, the pulp will absorb both oils and fats.
 This is particularly valuable, as it can be
 used as an emollient and antiseptic substi-
 tute for salves, etc., or lint as a surgical
 dressing. Wood pulp can be molded when
 moist so that it can be used as a splint
 owing to the fact that it dries very hard.
 When kept slightly wet with an antiseptic
 solution, the pulp remains soft and can be
 used as an absorbent dressing. Crude wood
 pulp can be sterilized by heating in an or-
 dinary sterilizer. If the heat is increased
 so that the surface is charged, it will act
 as a deodorizing dressing.


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