

THE UNITED STATES TREASURY NOTES.

The accompanying engraving is a representation of one of the new Treasury notes, and is as nearly a fac simile as it is possible to produce of a fine steel engraving by a wood cut. The slips across the right end are the coupons or interest scrip, and are to be cut off and presented at any of the Sub-Treasury offices when the interest is paid. It will be seen that there are five of them, the sixth and last being paid with the principal on the presentation of the note. Coupon is a French word, coming originally from the verb *couper*, to cut, and meaning a piece cut off. The

of America, for the sole purpose of diminishing the bulk and weight of machinery, but advantage is taken of it to work expansively to a much higher rate than is attained on any other class of steam vessels in the world. For a pair of 110-horse engines, the steam is admitted at full pressure to a pair of 12½-inch cylinders, to which it is cut off at from one-half to three-quarters stroke, and exhausted thence into four 25-inch cylinders, all the pistons having a stroke of 25 inches. The whole ratio of expansion is, therefore, from twelve to eighteenfold, or, on an average, fifteenfold. With this expansion the steam is, of course, condensed, a

It may be of service to many a poor camp baker as well as his housewife.—Boil one pound of flour, quarter of a pound of brown sugar and a little salt in two gallons of water for one hour. When milk warm bottle and cork it close. It will be ready for use in twenty-four hours.

THE Auburn (N. Y.) *Daily Advertiser* states that a mill dam near that city, which had been put up in 1797, was lately taken down, and the timbers, which had been sunk in the mud were found to be perfectly sound.

FAC-SIMILE OF THE NEW TREASURY NOTES.



notes are made with the coupons attached, but we have to place them below in order to get the engraving upon our page. The notes are engraved by the American Bank Note Company, of whose establishment and operations we gave a description on page 179 of our current volume. There are five denominations of notes issued, \$50, \$100, \$500, \$1,000 and \$5,000. Agents have been appointed by government in all the large cities and in the principal towns to receive subscriptions, and the loan is being taken with an eagerness which might have been anticipated from the high interest and perfect security offered. In this city alone, the subscriptions are more than sufficient for the demands of the government, and the accounts from all parts of the country show that there is to be no want of funds to carry on the war.

The London *Times*, that has been laboring so earnestly to dissuade English capitalists from subscribing to this loan, will soon be quoting the notes at a high premium in the London market, if we are not greatly mistaken.

The Progress of High Pressure Steam in England.

The London *Engineer* says:—Another steamer, the *Sicilia*, leaves the London Docks, this week for the Mediterranean, with 130 lbs. of steam under her safety valves, equal to a fair locomotive pressure. And from all we know of steam boilers and the causes of explosions we judge that the crew and passengers are as little likely to be blown up as her Majesty would be in her state cabin in the royal yacht. In the *Sicilia*, which is, we learn, the ninth vessel fitted with Rowan's engines and boilers, this comparatively high pressure is not carried, as the same or greater pressures are maintained on the boats running on the Western rivers



surface condenser being employed in which a constant vacuum of upwards of 28 inches is maintained. As the cylinders are small, and the high-pressure cylinders steam jacketed, the loss by condensation in the cylinders should be slight. Taking, therefore, an evaporation of 9 lbs. of distilled water, from a temperature of 100° per pound of coal, such engines ought, theoretically, to work with less than 1½ lbs. coal, per indicated horse-power per hour. And, by actual trial, from 1.36 lbs. to 1.42 lbs. coal only are consumed, a result which is not less conclusive as to the merits of the system than confirmatory of our theoretical knowledge of the properties of steam.

YEAST.—A correspondent writing from the camp mentions the fact, that one of the chief bakers of the Thirty-fourth regiment was formerly the baker of Lord Lyons. He makes his yeast from hops and water alone, and no better, sweeter or lighter bread was ever tasted. Talking of yeast, he tells of a simple recipe for making the same, which is highly commended by the general of one of the brigades.



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