

The several railroad companies between Albany and Buffalo intend to run three daily passenger trains on their roads during this winter, and the fare is to be reduced on the route to \$9,50-which is a discount of half a cent per mile on the present rates. The ar rangement is to take effect on the 15th inst.

Tennessee and Georgia Railroads.

The ship India, from Pill, England, which reached Savannah, Georgia, a few days since, brought 3,208 bars of iron for the above named road.

Electro Magnetic Locomotive.

The Report of the Secretary of the Navy states that the experiments of Professor Page, in testing the application of electro-magnetism as a motive power, in mechanics, have been continued since his report, made in compliance with a resolution of the Senate in September last, by the virtue of the approbation of March 3, 1849, and he is now engaged in preparation tor a trial trip of a locomotive on a railroad

great velocity to the pinion, consequently to 'being simple, useful and durable. IMPROVED LOCOMOTIVE BOILER.---Fig. 1.

shaft has a journal at the foot, running in a mentioned. This is a capital churn; it is

metal step in the churn bottom. When the simple (not an atmospheric one), and is easily

crank is turned, the large bevel wheel gives a operated. We cannot but recommend it as

This dasher shaft has pins or arms, G G, se-

cured on it; these are the agitators. This

disappointed; a good lot of as beautiful butter as we ever saw, was produced in the time

for inferior articles. It is prepared in the following manner: A pound of tin is melted in a crucible, and half a pound of purified quicksilver added to it; when this mixture is cold, it is reduced to powder, and ground with half a pound of sal ammoniac and seven ounces of flour of sulphur, till the whole is thoroughly mixed. They are then calcined in a matrass; and the sublimation of the other ingredients leaves the tin converted into the Aurum Mosaicum, which is found at the bottom of the glass, like a mass of bright flaky gold powder. Should any black or discolored particles appear, they must be removed. The sal ammoniac used here must be very white and clear, and the mercury quite pure and unadulterated. When a shade of deeper red is required, it can easily be obtained by grinding a small quantity of red lead along with the above materials.

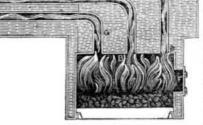
Gold Powder.

Pat some gold leaf, with a little honey or thick gum water, into an earthen morter, and

propelled by this power.

Round Wood Box Machines. Mr. George W. Carleton, of Brunswick, Maine, informs us that Mr. Asa Fessenden, of Baldwinville, Mass., is the inventor of a "Round Wood Box Machine," one of which is running at Brunswick, by E. Byam & Co. He says, "it is a beautiful thing, and a credit to the ingenious inventor. It receives a wood bolt at each of the four corners, and cuts covers and boxes at the same time, and will cut six gross in one hour.

A Subscriber should read our articles in Vol. ΠΨ 5, on the sinking of lead in water. It will in sink to the bottom.



pound the mixture till the gold is reduced to very small particles. Then wash out the honey or gum repeatedly with warm water, and the gold will be left behind in the state of powder; which, when dried, is fit for use.

Another, and perhaps better method of preparing gold powder is to heat a prepared amalgam of gold in a clean open crucible. containing a very strong heat, till all the mercury has evaporated, stirring the amalgam all

the while with a glass rod. When the mercu-This improvement on Boilers, is the inven- | letters refer to like parts. The nature of the ry has entirely left the gold, grind the remaintion of Mr. Samuel Bradly, Mauch Chunk, invention is the providing of tubes within the Pa, who has taken measures to secure a boiler, which form fire flues leading from the der in a Wedgwood's mortar with a little water; and when dried it will be fit for use. patent for the same. Figure 1 is a vertical fire-box, curving upwards, but rising verticallongitudinal section, showing the interior; | ly for some distance above the crown plate. | The subliming the mercury is, however, a profigure 2 is a transverse section. The same The main part of the tubes passes through the cess injurious to the health.