ABOUT LOCOMOTIVES.

Steam Engine.

Other Typen in Early Vae and Modern Fiyer.

Although Peter Cooper never built
being the less entitiled to the renown o otive. He began building his mode on the site of the present Mount Clare ade several trinal tripe, in 1829, and he close of that year. It wasa very crud

, having an upright boller with ngle eylinder of $31 / 4$ inches diamete sing the exhaust steam from the cylis in all modern locomotives, Mr. Coop-
er placed a fan, revolved by a belt from
had a draw-bar pull of 19,266 pounds, or
enough power for even a good-sized en enough power for even a good-sized en
gine of to-day, but if the bad balanecing of all early locomotives be added to th
frietion of the toothed wheels, and the

ne of the axles, in the funnel of his
eugine. The power was applied to he strength means of a toothed whee corse-power, and attained the then ex-
raordinary rate of 18 miles an hour. On the fors of the Baltimore 4, 1831, th arrectors of the Baltimore \& Ohio Rail-
road company issued their famous offer
of $\$ 4,000$ for the best locomotive which he following June 1. The winner o
called his engine the "York," fron
lork, Pa., where it was built. It wa

oppers," and had a vertical boiler an
ylinder. The exhaust steam revolv ample of engine building, as illu
trated by the ten-wheeled consolidate
passenger engines at presen in the E. \& O. road, brings up such mag
nificent concentration of speed,strength
and endurance as were never before
Eeen in the history of the world. These engines have six coupled wheels, six feet six inches in diameter, ylinders
$21 \times 20$ inches, and a steam pressure o

an elose to the ash pan by which air $\left\lvert\, \begin{aligned} & 170 \text { pounds to the square inch. The } \\ & \text { was forced up through the fire. Under }\end{aligned}\right.$ haul the Royal Blue line trains, and at as high a rate of speed as "York" ran
miles an hroughout the year four cars, and 1832 becond covering a mile in 32 seconds. age run of so miles a day. It was a litone, and the name of the engines using
the, horizontal boilers were "crabs" to
distinguish them from those of the grasshopper" class.
lloss Winans invented the projecting ournals on the axles of car whee
hus producing at a stroke the fri
hem from twel pounds to a ton to three pounds.
Mr. Winans' first two engines, man-
ufactured in the fall of 1836. though eight tons each in weight, had a great
er drawbar pull than any of the $12-t o$ engines made by Stephenson in ling.
land. In the following years the first This type of engine had driving wheels
three feet in diameter, and cylinders 17 sure in the boiter was 160 pounds to the
square inch, such an engine must have

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A LEGAACY OF DISEASE.



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ditiou was vastly improved. To the present
time I have takn 13 booces of Pink Pills,
and can truthfully say I believe I am
ind
tirely cured of my liver and kidney trouble,
and nearly so of my diarthoe.. My nervous
trouble
trouble, coo, is so much better that 1 a
sure a cure will be entirely perfected in
short time.
great benee atiso Her Hed the Piod was Pills wit an
tremely bad condition. Since using the pill
rewever, thin

 are not a patent medicine in the sense that
namo imples. They were firts compounded
as a prescription and used as such in eneral practice by an eminent physician. So great
whas their efficeney that it wasdeemen wre to
place them within the reach of all. They are now manufactured by the Dr. Willimes
Medicine Company, Schenectady, N. Y and


The man who falls on a banana skin once
will have sympathy, but he will only make wiil have sympathy, but he will only make
fun for the boys the next time he lands on
his back.-Ram's Horn. Piso's Cure is a wonderful Cough medi-
cine--Mrs. W. Pickert. Nan siclen and
Blake Aves., Brooklyn, X. Y., Oct. 26 , $\%$. The man who wears a face like a coffin,
shoult, not complain if he finds no welcome. There are ne excuses not to use St. Jacobs
Oil for bruises. No great man ever had time to play check-
ers in the middle of the day. - Atchison Cascarets stimulate liver, kidnevs nnd
bowels. Never sieken, wenken or gripe, loc. The man who rides a hobby thinks nobody
else is making any headway. As it certainly curcs it, St. Jacobs Oil is
the Master Cure for rheumatism. A jury of ravens would not be long in de-
ciding that a linnet could not sing. When bilious or costive eat a ansearet,
candy cathartic, cure gunrunted. $10 \mathrm{c}, 25 \mathrm{c}$, No old girl should have the nerve to crimp
her hair in the back. With a rub or two i.imbugg i, often oured

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 Ask Your Dealer for Them. Weaks Scale Works,FLORIDA IT IS THE BEST. YUCATAN.


