WATER COMMISSIONERS VS. COMMON COUNCIL. The present board of water commissioners disaproved of the stop-cocks now made use of by the Corporation, for several reasons-among which was

hey are made. The price also was deemed extravaant. The present board never have recommended of approved of them, and their engineers entirely lisapprove of them. Until the question was agitaed ninety-seven dollars each were paid for them : but even at this price, if allowed to be used at all,

heir insecurity, arising from their plan of construcion, and also from the imperfect metal of which

sociated with them.

hey are quite too high.

ect, the following opinion is expressed by the gentlemen who composed the committee of the Ameri-

After a long and careful examination of the sub-

can Institute, and a special committee who were as-

"It also appears in evidence that to shut off the water from any particular point, it is necessary to close two cocks, and often four; it is therefore apparent that one or more of them must act against a reverse pressure. But in the case of No. 2, this would be different, especially when under the increased and the Croton water; for as the valve acts against the seat only in one direction, it may be by he pressure sprung from the seat so as to leak, of subject to fracture from being supported only alwo opposite points near the periphery of its disk by he wedge. For a small pipe this would not be an ansuperable objection, as the valve might, in this ase, be strong enough to stand without deflection or facture.

acture. "Your committee are compelled, however, to con-itude that the use of cock No. 2 in any of the lar-ter sized pipes would be very uncertain, and tha he risk of fracture from the above cause would be

ery great.

'In another part the report says—' Your commit
ce are of the opinion that while both stop-cocks are
iable to objections when considered in all the cir
the same and the future use, number unstances of their present and future use, number is the best and safest of the two submitted to them in another place it is said, with respect, therefore, to the plan of stop-cocks adopted by the water commis-ioners, we conclude that it has the requisite quali-ies for the safe and effectual control of the Croton water in the mains or distributing pipes through the site?

ster in the mains or distributing pipes in object.

The committee was also led to discuss the qualities of the castings horetofore used for stop-cocks which were mostly obtained from blast-turnaces, and heir conclusions, they say, are the result of their was practical knowledge, "confirmed by the evilence adduced," and they say that "all the expelence of founders in the United States has shown hat by a proper selection of pig iron, a greater strength may be given by remelting; and, moreover, it is well known that while the working of a blast urnace is so capricious, that no uniformity of quality can be depended upon, a good founder can obtain rom the cupola, with certainty, such variety of cast rom as the particular purpose to which it is to be applied demands." In conformity with this view of the subject, the estimony of every practical man examined before the committee has been in favor of remelted nor other castings of stop cocks, and also for water your committee would therefore advise and strong-

Your committee would therefore advise and strongy recommend that in the works for the introduction of water into our city, the body which has charge of that important trust act upon the practical experience of one own country, deduced almost daily from the construction of steam cylinders, hydraulic pressures, &c. and about which there is little or no difference of opinion among practical founders, who give he preference to iron carefully selected and remediatin cupola furnaces.

The committee consisted of DUDLEY MARVIN, Chairman.

JAS. CURTIS,

RICHYD. M. HOE,

THO. B. STILLMAN,

Regular members.

JAS. CURTIS,
RICHO. M. HOE,
THO. B. STILLMAN,
J. RENWICK, L. L. D.
JOHN STEEL,
M. E. THOMPSON,
T. M. HARVEY, and
C. W. COPELAND.

Associate.;