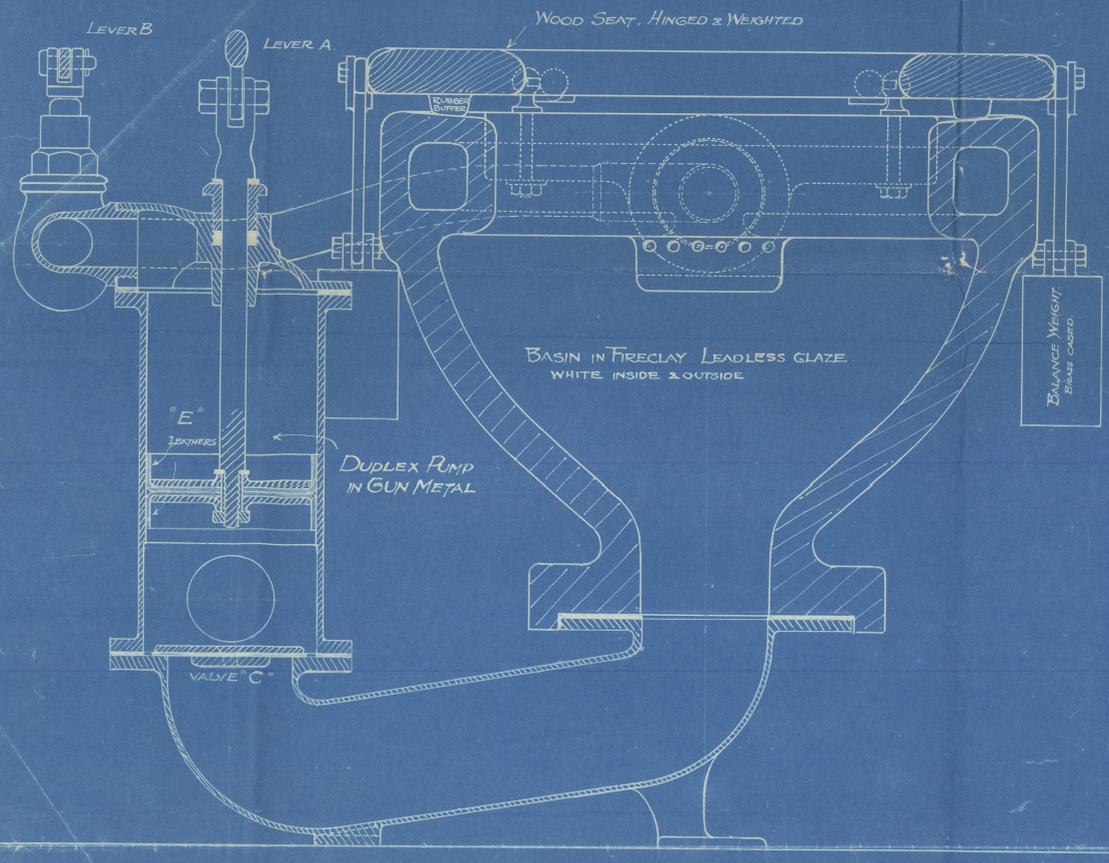


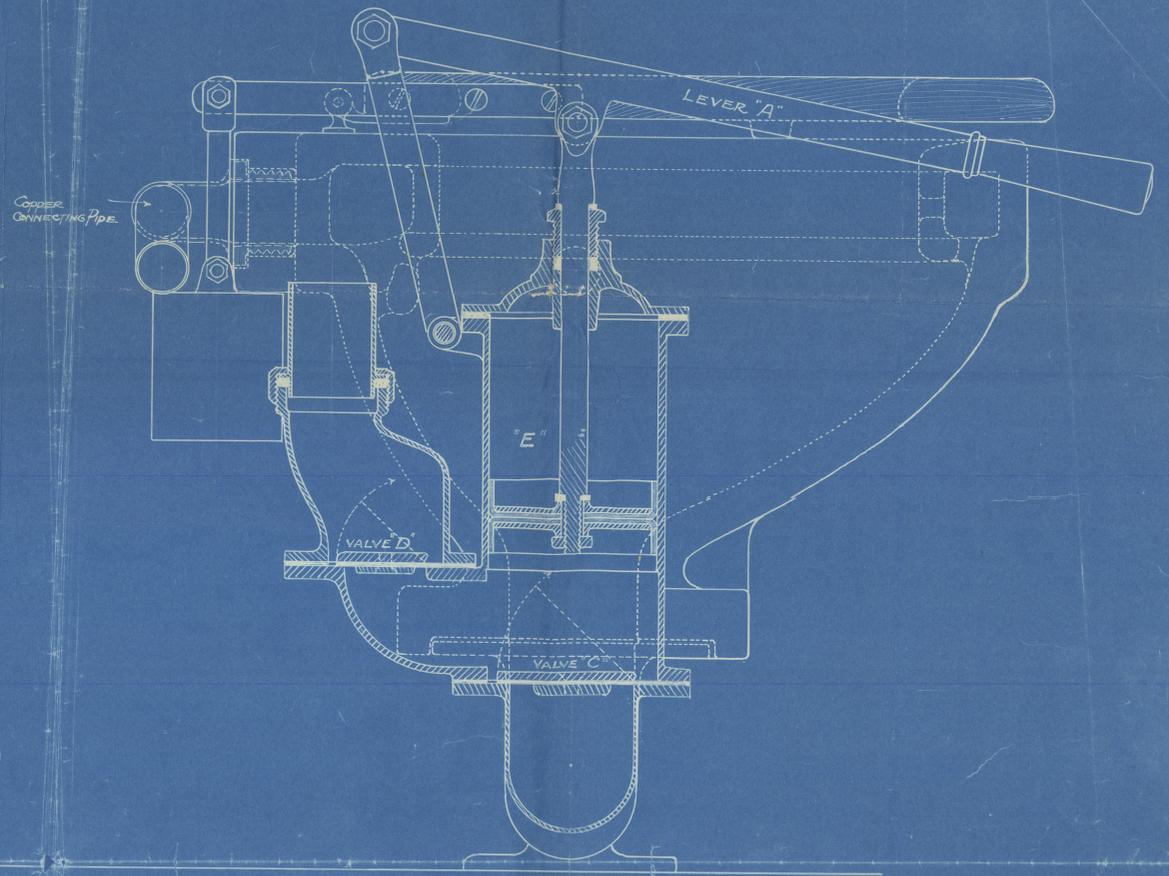
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3 sheets

(Ship No 2)
Juan Sebastian Elcano
UNDER-WATER CLOSET HALF FULL SIZE DETAIL.
AS PROPOSED FOR TORPEDO BOAT DESTROYERS

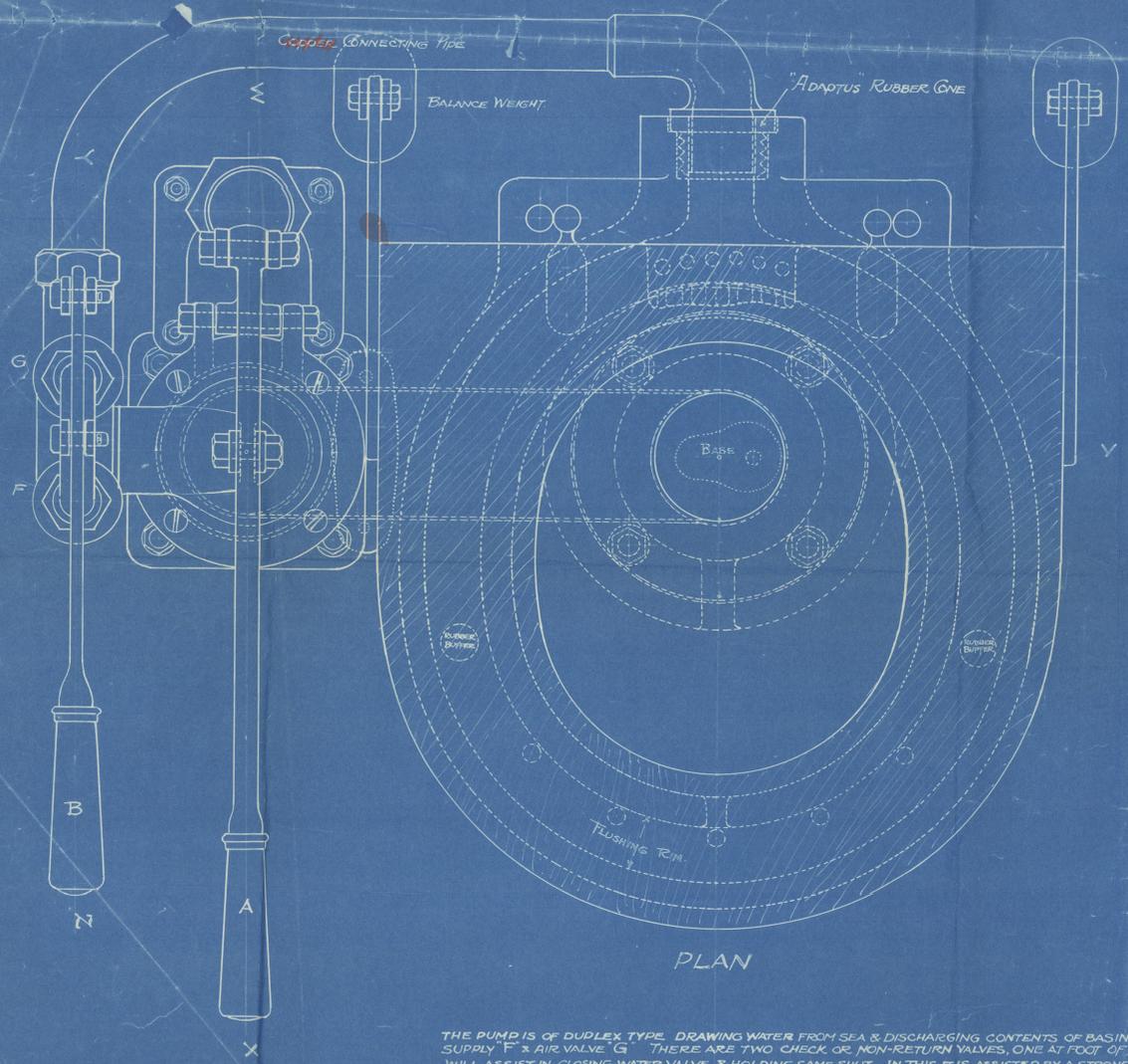
SHANKS & COY LTD
TUBAL WORKS
BARRHEAD



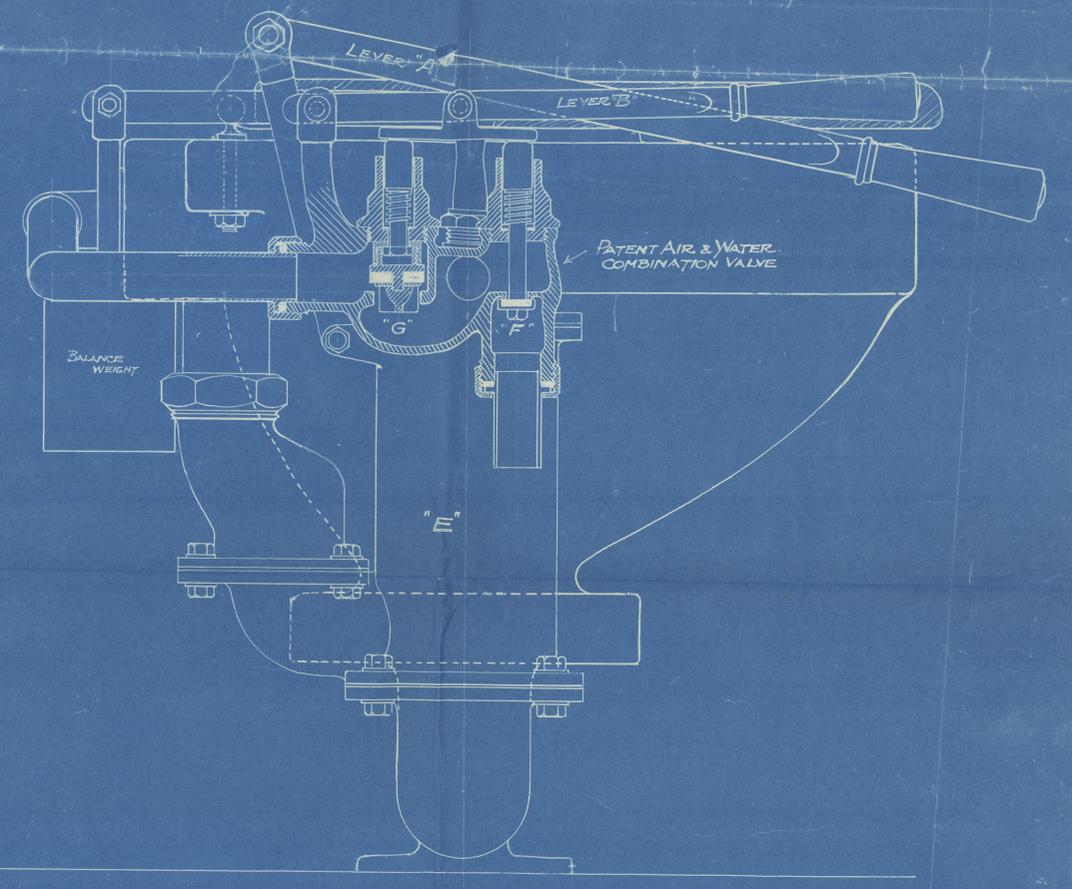
SECTION ON LINE U.V.



SECTION ON LINE W.X.



PLAN



SECTION ON LINE YZ

THE PUMP IS OF DUPLEX TYPE DRAWING WATER FROM SEA & DISCHARGING CONTENTS OF BASIN SIMULTANEOUSLY. THE LARGE LEVER "A" OPERATES THIS DUPLEX PUMP "E" THE SMALLER LEVER "B" OPERATING A COMBINED WATER SUPPLY "F" & AIR VALVE "G". THERE ARE TWO CHECK OR NON-RETURN VALVES, ONE AT FOOT OF PUMP CHAMBER "C" & ONE ON THE OUTLET "D". THE COMBINED AIR & WATER VALVE IS SO CONSTRUCTED THAT THE PRESSURE FROM THE SEA WILL ASSIST IN CLOSING WATER VALVE & HOLDING SAME SHUT. IN THIS IT IS ASSISTED BY A STRONG PHOSPHOR BRONZE SPRING. THE OPERATION OF THE PUMP CLOSET IS AS FOLLOWS:- 1ST TO EMPTY CONTENTS OF BASIN & TO DRAW WATER FROM SEA TO FLUSH THE BASIN AT SAME TIME. LIFT UP LARGE LEVER "A" TO FULL EXTENT & DEPRESS THE SMALL LEVER "B" AT SAME TIME. THEN KEEPING SMALL LEVER "B" STILL DEPRESSED PUMP WITH LARGE HANDLE. THE LIFTING ACTION OF LARGE LEVER "A" SUCKS CONTENTS OF BASIN PAST CHECK VALVE "C" INTO THE PUMP CHAMBER & AT SAME TIME FORCES THE FLUSH WATER WHICH HAS ENTERED THE TOPSIDE OF PUMP CHAMBER ABOVE THE BUCKET THROUGH THE WATER VALVE INTO THE BASIN. THE REVERSE OR DOWNWARD ACTION OF LARGE LEVER CONSISTS OF CLOSING CHECK VALVE "C" & FORCING CONTENTS THROUGH OUTLET CHECK VALVE "D" INTO SOIL PIPE & OVERBOARD OR THROUGH SKIN. WHEN FINISHED PUMPING & ENOUGH WATER IS OBTAINED TO FLUSH BASIN RELEASE SMALL LEVER, SO ALLOWING WATER VALVE TO CLOSE AUTOMATICALLY. (APPROPER 2" SEACOCK MUST BE FITTED AT SHIP'S SIDE TO DISCONNECT OR ENTIRELY CLOSE WHEN NECESSARY. THIS IS AS NECESSARY TO PROVIDE "A" SEA COCK FOR THE SUPPLY ALSO AT SHIP'S SIDE). 2ND TO EMPTY BASIN ENTIRELY WITHOUT ADMITTING OR DRAWING FLUSH WATER FROM SEA. USE ONLY THE LARGE LEVER "A" & PUMP IN USUAL MANNER. LIFTING LEVER UP & DOWN UNTIL CONTENTS DISCHARGED. IN THIS CASE THE AIR VALVE "G" STANDS OPEN WHEN SMALL LEVER IS UNTOUCHED & THE WATER VALVE "F" IS TIGHTLY CLOSED. THE AIR VALVE BEING OPEN FLUSH PIPE TO RIM OF BASIN ALLOWS THE SOIL PUMP TO ACT FREELY FOR DISCHARGING CONTENTS OF BASIN WITHOUT DRAWING WATER FROM SEA. THE CLOSET MAY BE FITTED ABOVE, ON OR, ENTIRELY BELOW THE WATER LINE & WORK EQUALLY EFFECTIVELY IN ANY POSITION.

DRAWING No 25441



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ACTION OF LARGE LEVER. A SUCKS CONTENTS OF BASIN PAST CHECK VALVE INTO THE BASIN. THE REVERSE OR DOWNWARD ACTION OF LARGE LEVER WHEN FINISHED PUMPING & ENOUGH WATER IS OBTAINED TO FLUSH BACK PIPE WHEN NECESSARY & IT IS AS NECESSARY TO PROVIDE A SEA COCK IN USUAL MANNER LIFTING LEVER UP & DOWN UNTIL CONTENTS DISCHARGE FLUSH PIPE TO RIM OF BASIN ALLOWS THE SOIL PUMP TO ACT FREELY & WORK EQUALLY EFFECTIVELY IN ANY POSITION.

DRAWING N°25441



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