THE COMING MAN.

A pair of very structury regs, Encased in search three, A pair of little studby boots, With studber doubting to search with studber doubting to search a little kill, a little cost, Cort as a norther can -And to's before us strides, in state, The future "coming man,"

His eyes perchance will read the dars, And surch their unknown wept, Perchance the horman lower and coul Will opport to their game. Perchance their lowers and that age and Will be a materiar light. "Howe arys, that poor are withful bent On some "high follows skill."

That brow, where neighbors through a will d first scheme, instantial scheme are a scheme direct blower district scheme scheme scheme direct bland war with interestat, bland scheme from a widder cares Neighbors directed of the scheme Neighbors with a trends of scheme first neighbors, with a trends of scheme, Are two, or three scretcy more?

Those lips that, in coming years, Will plead, or pray, or lowelt; Whose whispered worth, or lightning stash.

had stornly grave, may speak minut 0r, smilling, win control re seating now for ginger broad With all a belig's sent?

Which are a completent of the large bandle-the effect of the large little large transformer of the set of the little set of the large set of the large set of the little set of the little set of the large set of the little set of the little little set of the little set of the little little set of the little set of the little little set of the little set of the little little set of the little set of the little little set of the little set of the little little set of the little set of the little little set of the little little set of the little set of the little set of the little little set of the lit strength may lie

WOMEN'S CLUBS.

We notice that Scribser's Magnine has a good word for such organizations: Wher-ever there may be women who have leisure that that Scribber's

We notice that Sechaer's Magnue has a good word for such organizations: Wher-were there may be women who have leisure that hange heavily upon their hands, or a round of latefules courtexies to goo through with; where very there may be women who have leisure that hange heavily upon their hands, or a round of latefules courtexies to goo through with; where very there may be women who are leisure that hands the subject, visco, and mothers, for the number of a club as this. They would be better dupiditer, wives, and mothers, for the output that would be worn by such a club, and be saved the dreadful yearning for an impos-sion of the dreadful yearning for an impos-sion of the dreadful yearning for an impo-sion of the dreadful yearning for a pro-tee of the dreadful yearning for a pro-tee of hem dream the public career as a dread of lationable courtexies within the rippi value of eliquetty, becomes tastless to any for pleasure than to season her fife with society or pro-please within the season of the dreadful year pro-tee dread point dread of the season of the interested together in some region of fine dub fie of men is very rarely indeletual, and very rarely in any way elevating. Much of the dams and curses with its eating and drinky life of the family life, and so transform in the woman's following way elevating and wery rarely in any way elevating and the society in the the family life, and so transform in the word of how basies he were a woman's for the family life, and so transform in the word of how here were and the pro-that solution of the social spatial points in the word of how here were and the so-set of the mass at her even. Let her avail here if the movie of how here were well be dam, here if the meas

ROAST FIG.

BOAST PIG. To ast pig, says Clars Francis, in the *Protein* former, to be mice, about into be less than three, or more than as weeks old, and about weigh from eight to four-teen pounds. Wash is throughly with soda and water, item rinse it in salt and water, and finally in clear water; vipe dry inside and eat, and fill with a dreasing made of builet, potness mashed annohily, and bestern until light with the addition of a gener-ous piece of butter, two egges half a chopped week, and the hind feet forward; dust with four-week and the hind feet forward; dust with four-week and the hind feet forward; dust with four-week and the hind feet forward; dust with four-builting water. Basts often with a little butter wind saltwater mit the dripping: who it begins butter two often with a little butter wind saltwater and the dripping the with a little butter two often with a little butter who are signed to disc. Cack from two to three work and the bind feet forward; dust with the solure acceling to the axie; when down, set if for-ward saltwater and the dripping that the three who are signed to the drage part with a little butter who are signed to disc. Cack from two to three work and the bind feet forward; dust with yittle who are signed to disc. These armshit is with who are signed to disc. The with a bind of the set who are signed to disc. The solution the three who are signed to disc. The solution of a gener-tion allower is the bound the mere, and the olige of the platter with blenty of pars-ment he wige of the platter with blenty of pars-ment he ways serve freesh made apple same the solution of the platter with blenty of pars-ment allowers and salt and pepper to take; little but and saltways serve freesh made apple same ment is the same set and strain it into a gravy based. Assay serve freesh made apple same the solution of the platter with blenty display in a single the solution of the platter solution of the solution of the solution of the solution of the solution of th

LIRUT. Wast reports favorably on his official explorations of the Isthmas of Darien, with the view to the project of an inter-sceanic canal. He believes that it could be most smally exe-cated directly from the valloys of the Tupias and Tiati to the Gulf of Uraba, and would not require any locks.

THE WEST SHORE.

HOW OIL CLOTH IS MADE.

The Polytechnic Review has been looking into the manufacture of oil cloth, and from the results of its investigations we take a gueral discription of the process, which we believe will be interesting to all readers. The oil cloth, so called, as used for floor covering, connists of strong jute cloth, ("burdap" enversed with min-eral colors ground in color part on before the recorption of the pattern. For best quality goods, from aix to eight coats of ochre and withing, ground in linesed oil, are applied. The cloth is the structure must be filled up, and a smooth, heavy ground color part on before the recorption of the pattern. For best quality goods, from aix to eight coats of ochre and withing, ground in linesed oil, are applied. The cloth of third quality goods is "starchool" with a give also as a priming coat, receiving afterward sev-eral coats of oil color. The "painting machine" is primitive in construction, but rapid and effectual in operation; it is used for either starching or grounding with oil. The 50-yard roll is attached by hooks to the base of a wooden triangle drags the roll through the painter and along a drying rach. The pain is applied with a dipter, and is a pread by the cloth passing between an oil cloth enabled and al-from 8.000 to 10.000 yards in the various grades are daily printed in the whole establishment. After each of the first four coats of oil color, the goods must be "shaved," as the fibers of burdap make the surface somewhat fuzzy and uneven. The "shaving" machine has a table over which to cloth is passed, lightly structhed, while two bars, each bearing two puties stones with a longitudinal and traversing motion, imitating hand scrubbing. The pumice stones with a circular saw thereing our all after the last ground coat, the pattern or old shocks any be applied. The blocks one out for each interaction, series were all and crosswise with a circular saw thereing enverse in the re-quired outlines. For work is repaired by driv-uing anal drithen enting away these portions in tinsole

The transfer and drag rope, and hauled through and into the drying racks. HEREORING THE DROWNING.—The New York Tribuse describes an instrument devised by M. Wollex for resuscitating applytiated persons, and particularly those who have been in danger of death by drowning, is claimed to be superior to all other methods or appliances employed for such purposes. It consists of a sheet iron cyl-inder, large enough to receive the body of an adult person. This cylinder is enclosed at one um and the body of the patient insertiol, feet foremost, at the open end, up to the neck, around which a displaying in phase in such a manner as to prevent air from sutering the cyl-inder. An air pump is them set to work, the air is drawn off from the cylinder is with the re-sult of emissing a partial vacuum, when the outer air, by its weight, forces itself into the large through the unouth and nostrils, which are expased to the external air; by an opposite action of the pump the air is allowed to re-center the cylinder to twatch the move-ments of the chest, which rises and falls as in life, with the alternate working of the pump; these may be repeated about 18 times a minute, at exact mutation of natural breathing is there by effected.

by effected. CARBOLATED CAMPHOL—In the Bulletia de Therapeniques, M. Sonlez describes the new preparation known as carbolated camphor, now booming quits popular in European medical practice on account of its tendency to produce diminition of re-action after server operations, constitution of re-action after server operations, constitution of re-action after server operations, constitution of re-action after server operations, in one grain of alcohol—the solution being of an observer of the strength of all solutions of the value temperature, without decomposing, and also by the addition of camphor in crystals aim-lary if a boiling solution of carbolated camphor is postred into cold, water it instantly solidifies. It is miscible in all propertiens with olive and almond oils. Chemical examination show that the orbola acid. and camphor are not altered, and that they preserve all their properties in the solution.

FRANCE offers \$300,000 in premiums at her exposition next year.

.

MAKING MINERS' TOOLS.

R. Goldsworthy has been awarded a

TESTS OF QUALITY IN WATCHMAK ERS' OIL.

TESTS OF QUALITY IN WATCHMAK-ERS'OIL. A long article on watchmakers' oils in given in the German Watchmakers' Jowennl. It is hows that evil effects follow the oxidation of the oil (or rancidity) and gives tests to detect this state. We quote a few points: The organs of taste and smell are insufficient to ascertain what digree of inclination an oil has to become rancid, or even to indicate at once when it has actually become so. The following method will newer this purpose: Pour the oil in a bottle, together with an equal quantity of water, in which soda (carbonic natrium) has been dis-olved: then shake it violently and let the mix-ture stand for some hours. If the two liquids superstep perfectly, particularly under a higher tamperature, it is a proof that the oil is free from acid, on the contrary if a whity substance shows itself letween the two, it is errain that acid is present. Another method is based on the great semability of timus paper in regard to acids. Littuns paper can be bought at the chemist's. Acids which have become free in an oil, will change blue litmus paper in to violat or even red, according to the strength (it. This. This is a decided mistake. A bad color or yellow it is in this respect immaterial. In fact, those very clear oils are generally the most phoyed for the clearing process tead mostly to physel for the clearing process tead mostly to physel fut he clearing the desting the desting the drop will fall of in parals, or show an in-dined ag

January

HOW COLORS ARE SET IN ENAMEL.

AKING MINERS TOOLS. MAKING MINERS TOOLS. M To answer the above question, the Jeneter and Silversmith gained an interview with M. Piguet of New York city, who has lately introduced this art to this country. We quote a few para-graphs: "When I first began here I had to

ADJUSTABLE JOURNALS FOR CURVES.—At a late meeting of mechanical engineers in England, Mr. H. W. Widmark described a new devise, which afforded a means for the lateral and radial motion of the axle of locomotives while running round curves in the road. The following is a description of this design. Each pair of guides—always cast in one piece, whether fixed to the main frames of the engine at corres frames—is distinct from the other and is bored to a cylindrical surface, the axis of which is the radie of local transmesser of the state of the intermediate guide or box, the outper surface of which is the same line as the spring pillar. An intermediate guide or box, the outper surface of which is turned so as to fit easily in the outper guide, can have a turning motion round its axis and also an up and low motion, as may be required by the elasticity of the springs or the roughness of the road. The acle-lox has planed parallel side and is free to slide in a direction which is rectilinear and herizontal hat inclined in the axle of the wheels. The box at the opposite end of the axle is included in the other and is borned to a slo of the wheels. The box at the opposite end of the axle is included for the outper streng of the road. The acle low the state of the could, the axle is included in the opposite direction; so that, when the wheels and axle of the road. The acle is consequence of the case, by the included form of the rade, or center being advanced in relation to the frame whils the other shift is drawn hack by the included for the axle shows are free to turn round a borisontal axis, which is at right angles to the scient parallel stress and the inside guide in the stress and the inside guide in the inside guide in the inside plane. Thus one axle box may his ment the state of the road. In the writer's design each axle-box may the indice of corress, the axie box round the acle box round a borisontal axis, which is at right angles to the state of the road. In the writer's design each axle-box rout the integride wh

the line. OLD RAILS AN BRIDGE MATERIAL.—We read in the Railfood Gazette that a new use for old rails is suggested by two Austrian engi-neers, who have published a book containing designs of bridges and other framework con-structed almost wholly from old rails, the con-nections being sometimes made by means of other rolled iron shapes and sometimes by bolts and rivits. At present prices, it is said that the structures of old rails are 27 to 20 per cent. cheaper than equivalent structures of ordinary forms. Holes in rails used for such purposes must be drilled and hop purched, but it is claimed that the calls are work much more for such purposes than for re-rolling, and that they are very good shapes for use in structures, when properly used. It does not appear from what we are used of the look whether the authors have actually made any bridges of dir rails.

True amount of deposits in the Saving banks of the United States is estimated at \$1,000,